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11455

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

TO: Shane Hitchcock, OSC
EPA, Region IV

FROM: Phil Henderson
TAT Region, IV

THRU: Conley B. Phifer *CBP*
TATL, Region IV

SUBJECT: Final Report, Basket Creek Drum Disposal Site
Douglasville, Douglas County, Georgia
TDD# 04-9003-10-3110
TAT# 04-F-03962

DATE: 02 May 1990

SITUATION

This report has been prepared in accordance with the requirements of Technical Direction Document (TDD) 304-9003-10, assigned to the Roy F. Weston Inc., Technical Assistance Team (TAT) Atlanta office by Region IV of the U.S. Environmental Protection Agency (EPA).

The initial requirements of this TDD, issued by OSC Shane Hitchcock, were to collect and review existing file material on the site, conduct a PRP search, obtain site access, conduct a site inspection and prepare a sampling plan. The final requirement of this TDD was to conduct a geophysical survey of the drum disposal area and conduct a sampling investigation at both the drum disposal area and the former surface impoundment. The first part of this report includes a summary of relevant background material on the site, results of the site inspection, and a proposed sampling plan. The second part of this report summarizes the geophysical and sampling investigations.

Roy F. Weston, Inc.

MAJOR PROGRAMS DIVISION

In Association with ICF Technology, Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc.,
and R.E. Sarriera Associates

BACKGROUND

In 1976, waste oil and solvents were illegally disposed of by Young Refinery Corporation of Douglasville, Georgia. The waste was dumped at two locations off Basket Creek Road on the property of Lee Wallace. The site came to the attention of Georgia EPD when the Douglas County Sanitarian reported an incident of illegal dumping. The Sanitarian noted two tractor trailers pulled up next to a ravine adjacent to Basket Creek Road. One of the trailers had dumped 80 drums into the ravine and a bulldozer was covering them with fill. The sanitarian prevented the second tractor trailer from dumping. Georgia EPD came out the next day and collected two half gallon samples from two of the remaining 80 drums. One sample contained 50 percent ortho chlorophenol. State records indicated that Young Refinery accepted waste from various industries for disposal or resale. The company is believed to have disposed of refinery wastes, amines, phenols, chloroform, acetone, and trichloroethane. It is presumed that these chemicals are present in the buried drums.

EPD also discovered that an unlined surface impoundment had been constructed about 1000 feet north of the drum disposal area. Young Refinery was dumping drums of waste oil and solvents into this impoundment, allowing the wastes to evaporate and/or percolate into the soil. EPD required Young Refinery to dispose of the 80 remaining drums elsewhere and the surface impoundment to be backfilled. Fines were levied against Young Refinery, the waste hauler, and the property owner, Mr. Lee Wallace.

In October of 1985, Georgia EPD conducted a Site Inspection of the former surface impoundment. A number of samples were collected. A background soil, downgradient soil, and a composite soil sample from the impoundment were collected. A water sample was collected from the nearest private well (75 ft. from impoundment) and a surface water sample was collected from a spring 600 ft. downgradient of the impoundment. The only sample showing any contamination was the composite subsurface soil sample collected from the impoundment. This sample contained 300 mg/kg benzene, 62,000 mg/kg methyl ethyl ketone, 1740 mg/kg trichloroethylene, 5700 mg/kg ethyl benzene, 51,000 mg/kg total xylenes, 75,000 mg/kg toluene, 2,400 mg/kg tetrachloroethane, 177,000 mg/kg acetone 22,100 mg/kg methyl isobutyl ketone, 4.24 mg/kg PCB and a number of other organic compounds that were detected in the low parts per million range. EP Toxicity tests for leachability of metals detected 12,000 ug/l lead and 120 ug/l cadmium.

Georgia EPD considered the drum disposal area as a separate site. In 1985-1986 there was no residence located next to this disposal area. No file material was found indicating that EPD pursued any additional investigation of this site. It should be noted that a 1985 EPD trip report indicates that there was a third disposal area used by Young Refinery on Wallace Lake Road (presumably owned by Lee Wallace). This site consisted of disposal trenches. Arivec

Chemicals (located in Douglasville next to Young Refinery) also was reported to have dumped at this site. This site was closed out in 1969-1970. According to the EPD 1985 trip report, this site was now being used as a pasture. Wallace Lake Road is located about 1/4 mile southeast of the Douglasville City limits. A site investigation of this area may be warranted under a separate TDD.

When interviewed by EPD in 1976 Mrs. Lee Wallace stated that Young Refinery was not given permission to dump drums on their property. She then stated that Arivec Chemicals had been given permission to dump some old empty drums in the ravine, and that they had been covered up.

In May of 1989, NUS Corporation conducted Phase I of a Screening Site Inspection at the Basket Creek drum disposal area for the Site Investigation and support branch of EPA. This inspection was limited to a review of existing file material, completion of a target survey and an offsite reconnaissance of the site. The site did not score high enough using the hazard ranking system to merit sampling. The offsite reconnaissance revealed that a home had been built next to the drum disposal area and that the resident was obtaining drinking water from a private well. Due to the waste characteristics and the proximity of the residence to the disposal area it was recommended that the Emergency Response, Removal Branch of EPA evaluate this site.

INSPECTION REPORT

On March 7, 1990 property records were obtained from the Douglas County Tax Assessors office for the Basket Creek Road disposal areas. A drive-by survey of the site was then conducted to verify what property(s) the disposal areas were located on. The drum disposal area was located on the property of Harriet Foster. Mrs. Foster was contacted and TAT was given verbal permission to come back later in the week and conduct a site inspection. Mrs. Foster purchased the property in 1987 from Ethyl Wallace. She was not aware that drums had been buried on the property until after she purchased it.

Mrs. Fosters house is located about 250 feet east of drum disposal area. Originally she had a well located directly behind her house. However, due to water quality problems (poor taste, odor) a second well was installed at the north end of her property. There were also water quality problems with this well. According to Mrs. Foster, they use the water for their livestock and for general household supply, but drink bottled water.

The property to the north was owned by Paula Parker. This property had the surface impoundment. The property downgradient of the drum disposal area was owned by the President of Southwire Corporation. Mrs. Parker was contacted by phone and access to her property was granted. The Environmental Control Officer for Southwire Corporation was also contacted and permission was granted to go on this property.

A surface water and a sediment sample will be collected from the spring downgradient of the drum disposal area. Three subsurface soil samples will be collected from locations within the drum disposal area. Depth of collection will be dependent on field observations, and readings from air monitoring instruments. If no indications of contamination are encountered the sample will be collected 12-15 feet below land surface near the bottom of the fill.

Two additional subsurface soil samples will be collected from the surface impoundment. State file material indicates the depth of this impoundment was 6-8 feet. The same criteria will be used for depth of collection at this disposal area.

Groundwater samples will be collected from the Foster's private well and the Parker's private well. At the OSC's discretion background soil and water samples will also be collected.

Based on past sampling data from the state it is recommended that Full Priority Pollutant Analysis be run on all samples.

GEOPHYSICAL SURVEY

On 26 March, 1990 a geophysical survey of the drum disposal area was conducted using an EM-31D Non-contacting Terrain Conductivity Meter and a Proton Magnetometer. The purpose of this survey was to confirm the presence of buried drums at this location and to help pinpoint subsurface soil sample locations.

Both instruments were calibrated in an undisturbed area approximately 200 feet south of the disposal area. Instrument readings were then recorded at this location to establish background conditions. The average background magnetic reading was 52,300 gammas and the background conductivity reading on the EM was 3.4 mmho/m (millimhos/meter).

The filled area was then gridded on 30 foot centers using a measuring tape and compass. Instrument readings were recorded at each station on field data sheets. This data was then hand contoured in the field and subsurface soil sample locations were selected for the following day.

Results of the magnetic survey indicate that there are two large positive magnetic anomalies that probably represent buried drums. There is also an area in the middle of the fill that has a large negative anomaly. It is believed that this area is underlain with brush and contains significant void spaces.

The EM Conductivity survey detected an area of higher conductivity coincident with the northern magnetic anomaly. A second area of higher conductivity was located in the southern half of the filled area. Higher conductivity at this location is probably related both

to the presence of drums and to increased water saturation of the fill material.

The raw data from both surveys was computer contoured using the "surfer" program to produce anomaly contour maps. These contour maps as well as the field data sheets are presented in attachment G.

SAMPLING INVESTIGATION

On March 26, and 27, environmental samples were collected at the site. Actual sample locations are shown in figure 3. The only significant deviation from the proposed sampling plan was the elimination of two subsurface soil samples from the drum disposal area. Augering in the southwest portion of the filled area coincident with the large magnetic anomaly was difficult due to the consistent presence of drums within four feet of the surface. At approximately 20 locations within this area drums were encountered. Since there were no readings on the air monitoring instruments above the drums and we were unable to penetrate below the drums it was decided to eliminate two subsurface soil samples. It should be noted that each of the auger holes a zone containing charcoal was encountered immediately above the drums. This confirms statements made by the current property owner, that she had heard from neighbors that the drum disposal area burned for four days before the fire department was able to put it out.

CONCLUSIONS

Analytical results are summarized in table 1. The complete set of data is presented in attachment F. The most significant findings of the investigation were the extremely high levels of organic and inorganic contamination found in the two subsurface soil samples collected from the former surface impoundment.

The well sample collected downgradient of this impoundment showed low levels of two contaminants found in high concentrations within the impoundment. Trichloroethene, which was detected in the surface impoundment at a estimated concentration of 90,000 ug/kg was also found in the Foster's well at 5 ug/kg. The EPA Maximum Contaminant Level (MCL) in the drinking water standards is also 5 ug/kg. Mercury was also detected in the impoundment at a concentration of 3554 mg/kg and in the well at 1.45 ug/kg, which is just below the MCL of 2.0 ug/kg.

Low levels of mercury were also detected in the sediment and surface water samples collected downgradient of the drum disposal area. A number of other metals were also detected in the downgradient sediment sample as well as trace amounts of several solvents.

ATTACHMENTS

Figures 1-3, Maps and Sketches

A - Preliminary Assessment Form

B - Photographs

C - Log Notes

D - Table of Witnesses

E - Site Safety Plan

F - Analytical Data

G - Geophysical Data

H - Georgia EPD File

I - Property Ownership Information

TABLE 1

BASKET CREEK ANALYTICAL DATA

CHEMICALS	PW01	PW02	SW01	SB01	SB05	SB06	SD01
Aluminum (ppb)	101 C	117 C	148 C	36487.5(ppm)	23009.73(ppm)	17872.02(ppm)	13693.11(ppm)
Arsenic (ppm)				20.48	4.87	11.12	7.06
Barium (ppm)				157.75	58.15	103.14	34.33C
Beryllium (ppm)				1.50	0.24C	0.25C	0.78C
Cadmium (ppm)				5.00	6.33	17.57	2.86
Calcium(ppb)	5400	13500	1500 C	475(ppm)	48.66C(ppm)	100.38C(ppm)	234.07C(ppm)
Chromium (ppm)				49.75	312.90	192.97	35.37
Cobalt (ppm)				15.75		14.05	7.80
Copper (ppm)				42.50	34.06	63.49	15.34
Iron (ppb)	127	1016	613	49505(ppm)	59416.06(ppm)	157377.67(ppm)	32959.69(ppm)
Lead (ppm)				40.35	667.88	2579.67	8.87
Magnesium (ppb)	400 C	2900 C	1900 C	3150(ppm)	632.60C(ppm)	1405.27(ppm)	1170.35C(ppm)
Manganese (ppm)		.172	67(ppb)	232.25	98.30	41.41	113.65
Mercury (ppm)		1.45(ppb)	0.29(ppb)	0.12	38.20	3553.68	0.30
Nickel(ppm)				21.75	82.73	13.55	
Potassium (ppb)	1400 C	1600 C	1200 C	2750(ppm)	1046.23(ppm)	1355.08(ppm)	1092.33C(ppm)
Sodium (ppb)	5100	4500 C	1800 C	1650(ppm)	2068.13 (ppm)	5370.14(ppm)	1118.34C(ppm)
Vanadium (ppm)				106.50	30.90	47.43	45.51
Zinc (ppb)	31			94.75(ppm)	66.42(ppm)	156.34(ppm)	58.00 (ppm)
Cyanide (ppm)						1.49	
Methylene Chloride (ppb)	2BJ	2BJ	3BJ	17B			9B
Acetone (ppb)	4BJ	4BJ	2BJ	17B	890B (ppm)	1300B(ppm)	42B
2-Butanone (ppb)	6BJ	6BJ	5BJ	10BJ	890(ppm)		32B
1,2-Dichloroethene (ppb)		2J					
Trichloroethene (ppb)		5			90J(ppm)		
4-Methyl-2-Pentanone (ppb)				4BJ	1400(ppm)		
Tetrachloroethene (ppm)					120J	720	

TABLE 1

BASKET CREEK ANALYTICAL DATA

Toluene (ppm)					9300	11,000	
Ethylbenzene (ppm)					220J	170J	4J(ppb)
Xylene (ppm)					1300	1500	.015
1,1-Dichloroethane (ppb)							2J
1,1,2,2-Tetrachloroethane (ppb)			1J				4J
bis(2-Ethylhexyl)phthalate (ppb)	5BJ	5BJ	5BJ	480B	95000B	220,000BE	280BJ
Phenol (ppb)					4300J		
2-Chlorophenol (ppb)					1000J		
Isophorone (ppb)					1900J		
Naphthalene (ppb)					4200J	19000	
2-Methylnaphthalene (ppb)					1800J	8000J	
Dimethylphthalate (ppm)					10		
Di-n-butylphthalate (ppm)					21	5.9J	
Butylbenzylphthalate (ppm)					36B	41B	
Gamma - BHC (ppb)					240		
Heptachlor (ppb)					120		
Aldrin (ppb)					130		9.2
Aroclor - 1254 (ppb)					3400	2700	
Alpha Chlordane (ppb)							7.2J
Heptachlor Epoxide (ppb)			.068J				

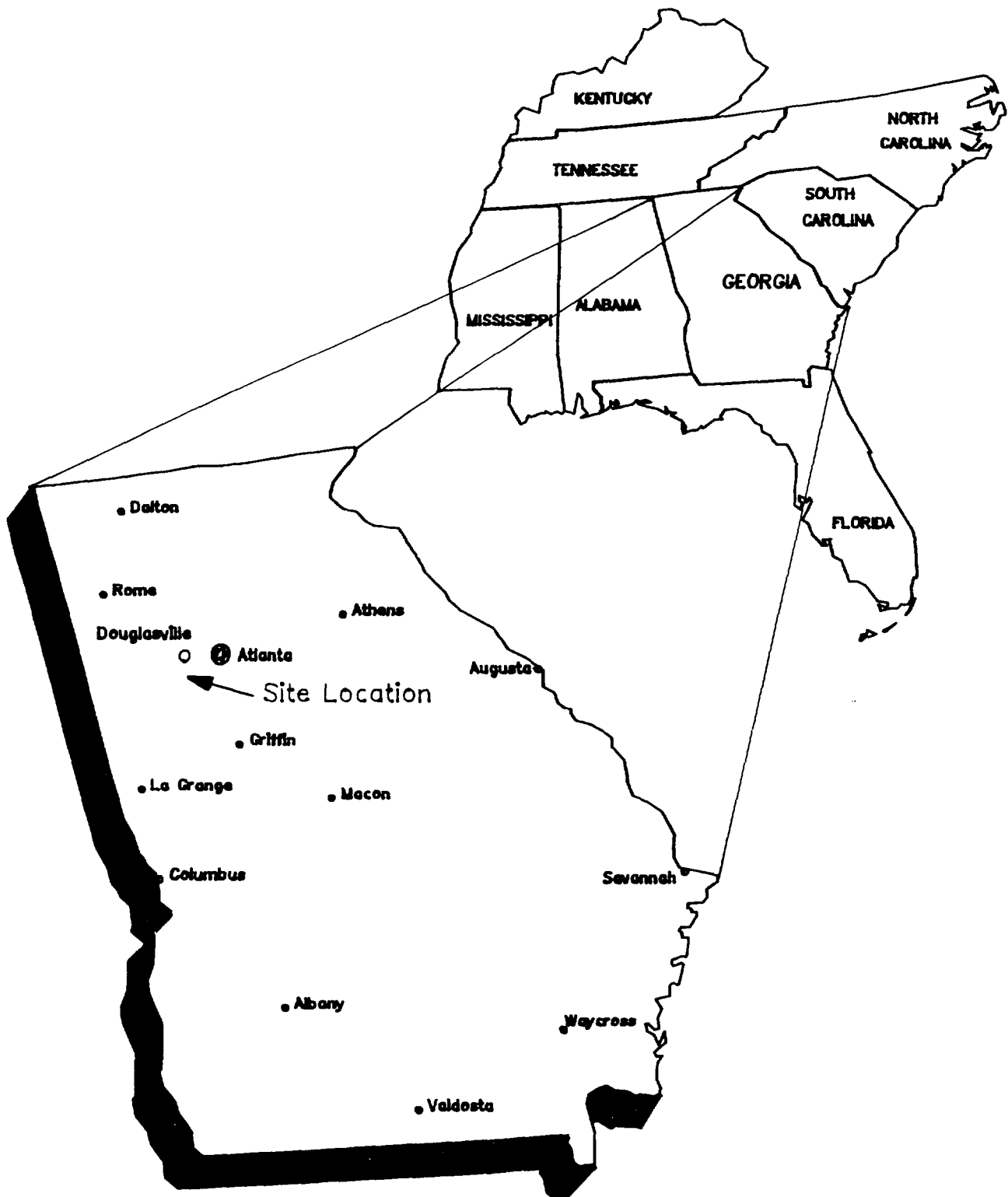
B Compound was also detected in the associated blank.

C Analysis result was less than the contract required detection limit, but greater than or equal to the instrument detection limit.

E estimated value, exceeded calibration limit.

J Estimated value, compound was detected below the detection limit.

FIGURE 1
GENERAL SITE LOCATION MAP

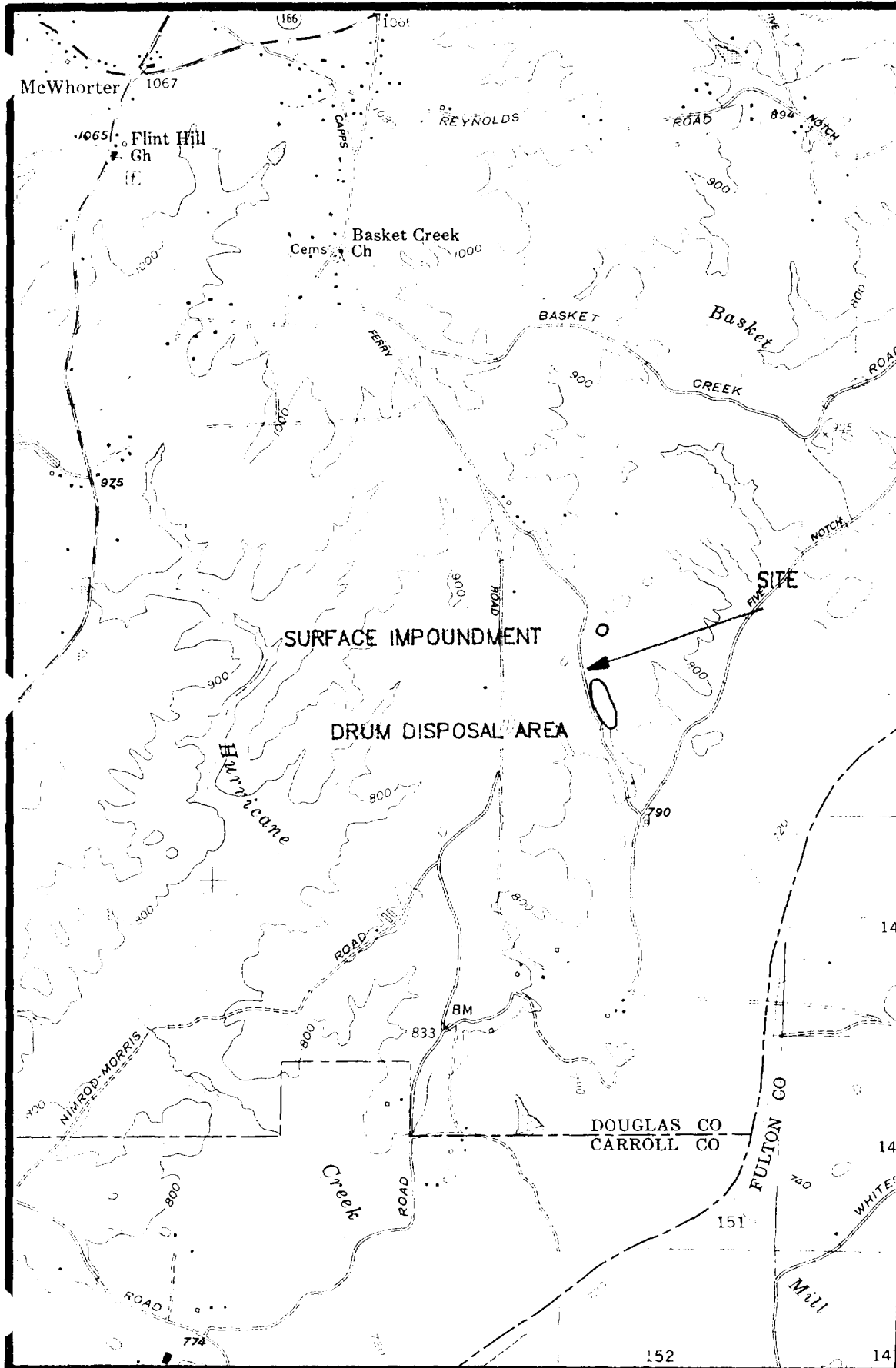


E.P.A. Region IV
Weston T.A.T. Activity Location
TDD No. 04-89 12-10-2951
S and P Grading
Roswell, Fulton Co., Georgia



EPA

FIGURE 2
AREA LOCATION MAP



WESTON SPER Region IV TAT SITE: BASKET CREEK DRUM DUMP

TAT Activity Description: SITE LOCATION MAP TDD NO.: 04-9003-10-3110

(RICO QUAD) DOUGLASVILLE, DOUGLAS CO., GA DATE: 06 APRIL, 1990

FIGURE 3
SITE DIAGRAM



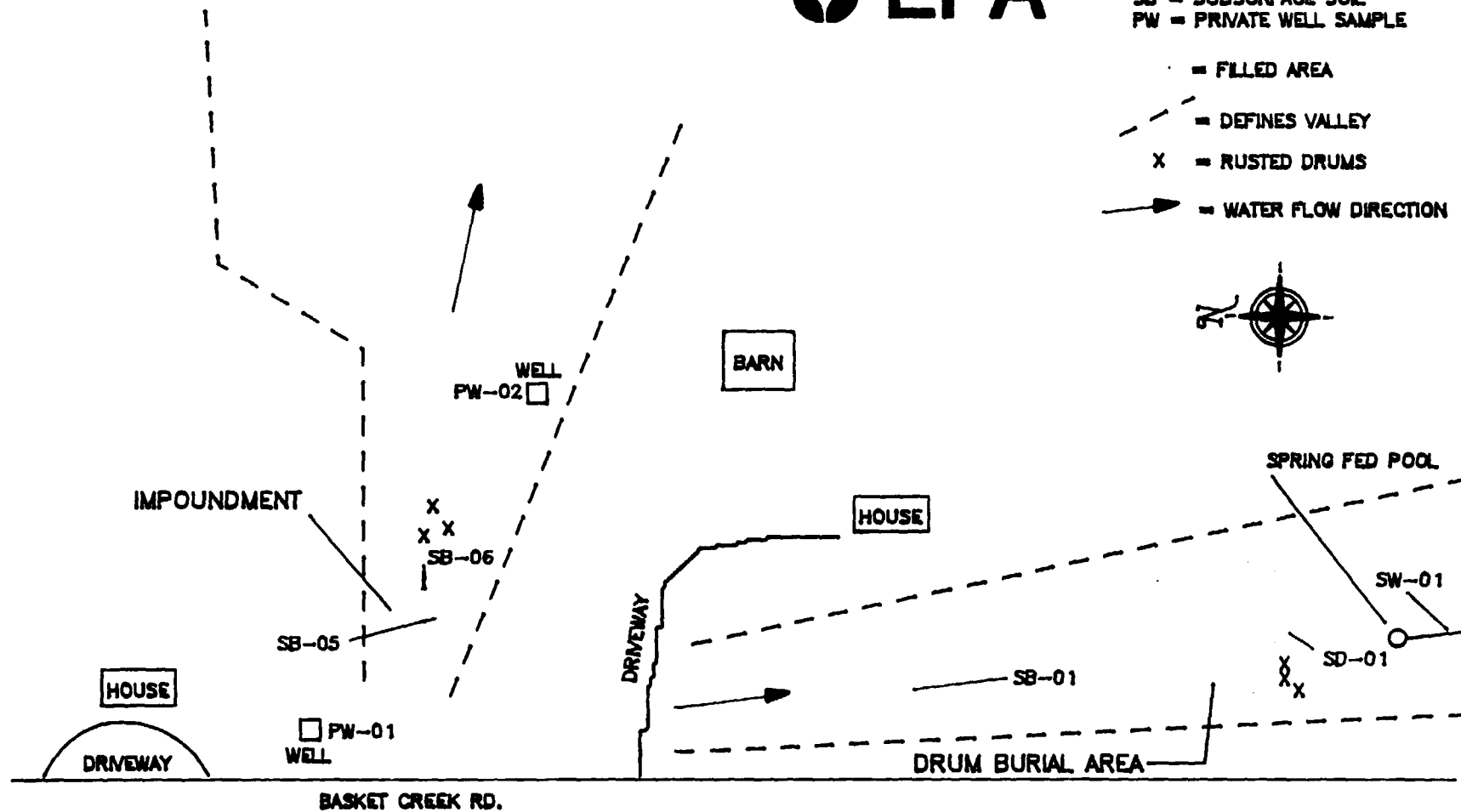
SD = SEDIMENT SAMPLE
SW = SURFACE WATER SAMPLE
SB = SUBSURFACE SOIL
PW = PRIVATE WELL SAMPLE

■ = FILLED AREA

- - - = DEFINES VALLEY

X = RUSTED DRUMS

→ = WATER FLOW DIRECTION



WESTON SPER Region IV TAT

SITE: BASKET CREEK DRUM DUMP

TAT Activity Description: SAMPLE LOCATION MAP

TDD NO.: 04-9003-10-3110

DOUGLASVILLE, DOUGLAS CO., GA

DATE: 30 MARCH 1990

1 9 0018

ATTACHMENT A
PRELIMINARY ASSESSMENT FORM

**USEPA REGION 4 EMERGENCY RESPONSE BRANCH
SITE ASSESSMENT REFERRAL FORM**

1 9 0020

PAGE 1

SITE NAME: BASKET CREEK DRUM DISPOSAL SITE		TDD No: 04-9003-10				
SITE LOCATION: (ATTACH MAP) THE SITE IS LOCATED OFF BASKET CREEK ROAD IN DOUGLAS COUNTY GEORGIA						
:RIPTION OF TAT INCIDENT RESPONSE:(Include Dates) : THIS SITE WAS REFERRED TO THE EMERGENCY RESPONSE BRANCH OF EPA BY SITE ASSESSMENT BRANCH. A PRELIMINARY INVESTIGATION CONDUCTED BY THE SITE ASSESSMENT BRANCH DETERMINED THAT THE BASKET CREEK SITE WOULD NOT SCORE HIGH ENOUGH USING THE HRS TO MERIT FURTHER WORK. A PA FORM AND HRS SCORE ARE ALLREADY ON FILE FOR THIS SITE.						
LONG TERM CLEAN-UP GOALS:						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; padding: 2px;"></td> <td style="width:40%; padding: 2px; text-align: center;">SITE DESCRIPTION (ATTACH SITE LAYOUT MAP)</td> <td style="width:30%; padding: 2px;"></td> </tr> </table>					SITE DESCRIPTION (ATTACH SITE LAYOUT MAP)	
	SITE DESCRIPTION (ATTACH SITE LAYOUT MAP)					
TYPE OF FACILITY:						
KNOWN OR SUSPECTED HAZARDOUS SUBSTANCES PRESENT ON SITE:						
WASTE QUANTITY (Drums, Soils, Lagoons, etc...):						
REGULATORY STATUS:						
OWNER/LESSEE-NAME:						
ESS:		PHONE:				
SITE CONTACT - NAME:						
ADDRESS:		PHONE:				
USEPA CONTACT - NAME:		PHONE:				
TAT CONTACT - NAME:		PHONE:				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:35%;"></td> <td style="width:30%; text-align: center;">TARGET INFORMATION</td> <td style="width:35%;"></td> </tr> </table>					TARGET INFORMATION	
	TARGET INFORMATION					
OBSERVED RELEASE TO ENVIRONMENT (Attach Sampling Data)		YES:	NO:			
SURFACE WATER:						
GROUNDWATER:						
AIR:						
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:35%;"></td> <td style="width:30%; text-align: center;">SURFACE WATER</td> <td style="width:35%;"></td> </tr> </table>					SURFACE WATER	
	SURFACE WATER					
LOCATION OF NEAREST DOWNGRAIDENT SURFACE WATER BODY (Lake, Stream, Ocean, etc...) [Show On Map]:						
LOCATION OF SURFACE WATER INTAKE (Show On Map):						
NUMBER OF PEOPLE SERVED:						
CITY/COUNTY WATER SYSTEM CONTACTS:						
NAME:	PHONE:	NAME:	PHONE:			
SS:		ADDRESS:				
RECREATIONAL USE (Boating, Fishing, Swimming,, etc...):						

SITE ASSESSMENT REFERRAL FORM

PAGE 2

SURFACE WATER (Cont...)

AGRICULTURAL USE:

SENSITIVE ENVIRONMENTS (Wetlands, Endangered Species):

AT TO HUMAN FOOD CHAIN:

GROUNDWATER

CITY/COUNTY WATER SYSTEM CONTACTS:

NAME: **PHONE:** **NAME:** **PHONE:**

ADDRESS: **ADDRESS:**

LOCATION OF WELLS:

DEPTH OF WELLS:

NUMBER OF PEOPLE SERVED:

PRIVATE WELL USE SURVEY (Number of homes within 0.5 miles of site) [Attach survey forms]:

KARST AQUIFER AREA (LIMESTONE/SINKHOLES):

ONSITE EXPOSE/DIRECT CONTACT

SITE ACCESS (Restricted, Unrestricted):

OCCUPIED BUILDINGS ON SITE:

WORKERS ON SITE:

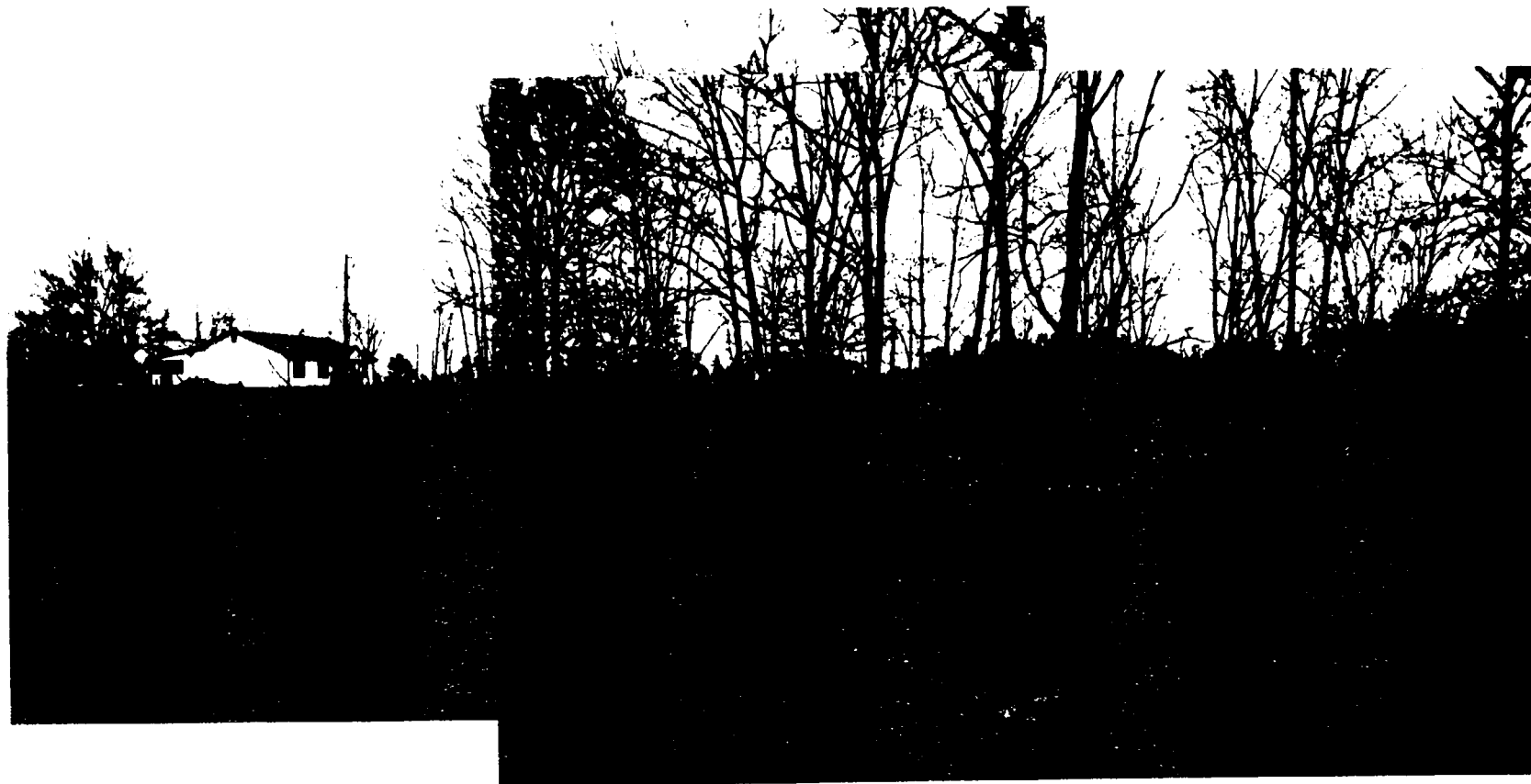
SCHOOLS/DAYCARE CENTERS WITHIN 0.5 MILES:

EXPOSURE PATHWAYS (Contaminated Soils, Lagoons, Drums, etc...):

POTENTIAL FOR AIR RELEASE (Describe Known or Potential Sources of Air Emissions on Site):

OTHER COMMENTS

ATTACHMENT B
PHOTOGRAPHS



**PHOTO NUMBER #1
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Foster residence with drum
disposal area to the right,
beyond trees.

Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA

Photographer: P. Henderson **Date:** 3/9/90

Film: Wolf **ASA:** 100 **Time:** 1330

TDD Number: 9003-10-3110 **Witness:** T. Neal

Location of Negatives: Atlanta TAT Office



**PHOTO NUMBER #2
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Looking back up toward filled
ravine. (drum disposal area)
Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1350
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office



**PHOTO NUMBER #3
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Partially buried drums (empty)
visible at south end of drum
disposal ravine.
Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1355
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office



**PHOTO NUMBER #4
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Spring located approximately
300ft. below drum disposal
area.

Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA

Photographer: P. Henderson **Date:** 3/9/90

Film: Wolf **ASA:** 100 **Time:** 1400

TDD Number: 9003-10-3110 **Witness:** T. Neal

Location of Negatives: Atlanta TAT Office

1 9 0027



**PHOTO NUMBER #5
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Parker residence, with surface
impoundment in second growth
pines.

Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA

Photographer: P. Henderson **Date:** 3/9/90

Film: Wolf **ASA:** 100 **Time:** 1415

TDD Number: 9003-10-3110 **Witness:** T. Neal

Location of Negatives: Atlanta TAT Office



**PHOTO NUMBER #6
OFFICIAL PHOTOGRAPH
ENVIRONMENTAL PROTECTION AGENCY**

Subject: Empty drums below surface
impoundment.
Location: Basket Creek Drum Disposal Site
Douglasville, Douglas County, GA
Photographer: P. Henderson **Date:** 3/9/90
Film: Wolf **ASA:** 100 **Time:** 1420
TDD Number: 9003-10-3110 **Witness:** T. Neal
Location of Negatives: Atlanta TAT Office

ATTACHMENT C
LOG NOTES

yside
 2-1-1980 3/6/90
 11:59 PM
 study tonight
 Phillip Anderson

Weston
 performing
 leave Weston
 on 2/25/90
 arrive at

working
 - office
 on 2/27/90
 in Weston
 doing

noon spent
 in Site Assn
 on 2/27/90
 arrive at

working
 on Farm
 Phillip Anderson 3/6/90
 at office

aftering site
 in farm
 Weston
 on 3/3/90

arrive at
 Site Assn
 Weston
 on 3/5/90

Tues Mar 6, 1990. 0730 Arrive at
 Weston. Start work on the
 Basket Creek Drum Barial
 site PCS 3110. Site Assn
 Branch of EPA referred
 this site to us. 1000 meet
 with Mario Villanarzo GA
 State project officer (EPA
 Site Assn Branch) and obtain
 permission to review file
 on the Basket Creek Site.
 Spend afternoon reviewing
 file materials. leave Weston
 at 1630. Phillip Anderson 3/6/90

Wed Mar 7, 1990 - 1000 Arrive at
 Weston. Spend morning reviewing
 Basket Creek file materials.
 1100 Drive to Douglasville
 County Tax Assessor's Office
 to verify current ownership
 of site property.

* Note - NUS / FHT did a Phase
 I SSF, limited to off site
 recon of site + target survey.
 at the Basket Creek drum disposal
 site. Due to lack of targets this
 site did not score high enough
 to merit further action.

The state (ENR) conducted a
 Site Inspection in 1986 of
 the Basket Creek Buried Pit
 site 2. This report was on
 a surface impoundment

where drums of waste solvents were dumped about 1000 ft north of ravine where drums were dumped. The state file contains reference material dating back to 1926 when the state originally became involved with this site. A total of 3 sites are mentioned in this report. The 3rd was located on Wallace Lake Rd. in Douglas County. The two previously mentioned sites were indist. + drum disposal area ~~there~~ so close together access information will be obtained for both.

1130 arrive at tax assessors Office. obtain property information.

1300 Drive out to site to verify property information obtained at tax assessors office. Drum disposal area located on the property of Mrs Harriet Foster 1047 7840 Baker Creek Rd. Mrs Foster observed me looking at her property from road. I then drove up to her house to explain what I was doing. I was doing. Mrs Foster bought the property from Ethyl Wallace ~~son~~ in May of 1987. Mrs Wallace is

aste solvents
out 1000 ft
where
m-d. The
tain reference
back to 1976
originally
with this
3 sites
in this report.
ed on Wallace
is County.

mentioned
+ drum disposal
se together
on will be

x assessors
erty information
e to verify
obtained at
ice. Drum disposal
the property
Foster lot

Ed. Mrs Foster
living at her
road. I then
house to
was what

the property
we saw it
Wallace is

1 9 0032

the widow of Leo Wallace
who in 1976 allowed Young
Refinery of Douglasville to
dump waste oil + solvents
on his property.
Mrs Foster was got informed
of the buried drums when
she purchased the property.
Her son used bulldozers to
fill in a ravine + they had
hailed several loads of tires
out of ravine.

Originally had well located
directly behind house. (House
is ~150 ft + east of ravine w/
drums). Water tasted bad
so they moved well into
valley to the NE. still
have problems with water
quality, they drink bottled
water + use well water
for showering etc. 2nd well
location is down gradient of
surface impdmt.

Mrs Foster has barn w horses
behind house. One of their
horses got loose and went
grazing in former drum
disposal area. Horse got sick,
Vetrianian said it had
probably been poisoned.

I told Mrs Foster that
we would like to come

out and inspect the ravine on Thursday or Friday. She gave me permission to do this.

- 1430 Arrive back at Weston Office
Called Mrs Paula Parker who owns property to North of Mrs Foster. This property has surface impoundment on it. Mrs Parker gave me permission to go on her property for site inspection Thurs or Friday.
- 1510 - Mrs Foster stated that Southwire Corp owns property downgradient of Ravine. I called up Southwire Corp & talked to their Environmental Control officer - Joel Dicks. The president of Southwire owns this land, it is used as a private hunting club. Maybe developed into a retreat. Mr Dicks gave me permission to go on this property during our inspection. I told him I would contact him again and let him know what I saw and whether we would want to collect any samples on their property.

he ravine
riday. She
s - to do
-
Weston office
-ker who
North of
property has
vent on it.
me permission
property for
thurs of Fridays
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Environment
Joel Dicks.
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any samples
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19 0034

Summary of Access Info

Harriet Foster
7840 Basket Cr Rd
Douglasville GA 30135
Phone 489-2515

Drum
Disposal
Area.

River Junction lands (southwive)
Contact Joel Dicks
Phone (404) 832-4242

Paula Parker
7768 Basket Creek Rd - Surface
Douglasville GA 30135 - Impoundment
Phone 489-1381

1700 - Leave office for Home

Phillip Henderson 3/7/90

Thurs March 8 1990. 0730 Arrive

at Weston. Spend day working
on Admin tasks. Leave office
at 1630, Phillip Henderson 3/8/90

Friday Mar 9, 1990 - Arrive at Weston
10700. Spend morning making ph

copies of Site Assn/Referral letter
Form, example, & cover letter
Sent copies to Satellite, TAT office
in Memphis & Louisville.

1200 Load out EPA 1086 to conduct
Site inspection at Basket Cr.

1330 Arrive at Harriet Forsters residence

Weather is clearing, cloud cover
breaking up, temp ~ 50°F with

light breeze. Begin inspection north of ravine in hardwood oak trees. According to Mrs Foster County altered drainage on Basket Cr road such that increased runoff goes into ravine. Standing water noted between hardwood trees and filled ravine where drums dumped. Dimensions of filled area ~ 600-700 ft N-S and ~ 350 feet east-west. Entire filled area is traversed (except for several thick briar patches) No drums visible on surface. Only scrub vegetation & briars growing on fill. Surface cracks noted near SW corner of fill. No readings above bgd on HNG, GGI or OVA. Filled area ends abruptly with natural valley trees below. Looking back up re-estimated that depth of fill is 15 ft in center of valley. Several empty drums below southern edge of fill. One of them is labeled "trichloroethane." Minor dust staining on valley floor immediately below filled area. No leachate visible. Approx 300 feet from end of filled area a spring

P. B. M.

Mon We Ad Pre

Mon. Tues. Wed. Thurs. Fri. Sat. Sun.

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 impoundment
 site
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 going on
 back to

ing up and
 Phillip Henderson

at Weston,
 site

basket
 PCS 3110

March 3/12/90

arrive at Weston

Site Inspection

Leave

Henderson 3/13/90

arrive at

ing doing

Map

and afternoon

packing

at Weston

at Cr 3110.

March 16

March 16

March 16

March 16

March 16

March 16

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March 16

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March 16

March 16

proposed sampling plan
 Basket Creek PCS 3110.

Phillip Henderson 3/14/90

Tues March 20 1990 - 0900 arrive at

Weston, PM - Load up camp

Van. Rep. H. to basket Creek

Report then review process.

Leave Weston 1300 Phillip Henderson

Wed March 21 1990 - 0730 Arrive

at Weston. Work on Admin

istrative tasks. Leave Weston 1630

Phillip Henderson 3/21/90

Thurs March 22 - Friday March 23 - Sick leave

Mon. March 26 1990 - 0900 arrive at

Weston. spend AM conducting

Administrative Tasks. 1300-1700

Prepare equipment load out list

for sampling tomorrow at

Basket Creek PCS 3110.

Phillip Henderson 3/26/90

Tues March 27 1990 - 0730 arrive at

Weston. Load out EPA 1086

with sampling equipment for

Basket Creek. Calibrate air

monitoring equipment.

1030 - Arrive at site, begin calibrating

geophysical instruments. Instruments

calibrated in forested area

200ft south of fill and 100

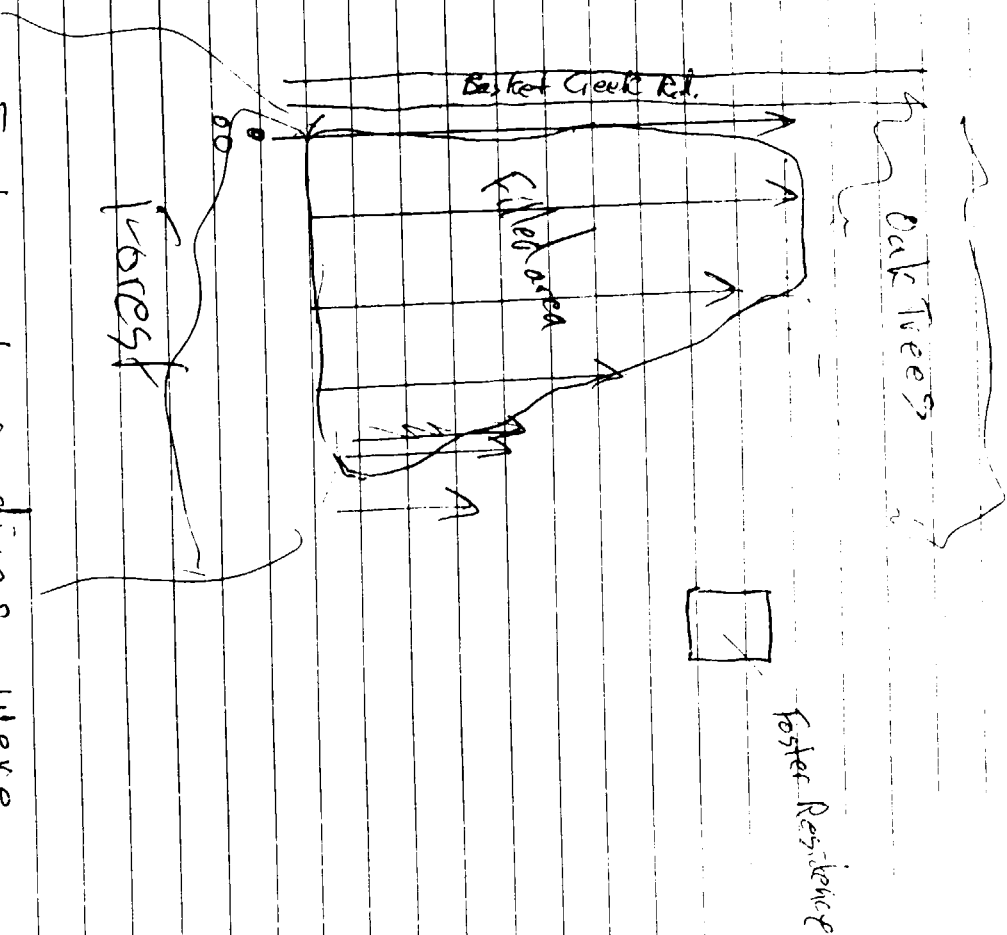
ft east of Basket Creek

Road. Background magnetic

readings were between 523.

arrive at Weston,
 on the

gammes and 52,286 ~~gammes~~ ^{gammes}
 Average value 52,306 gammes
 Average background conductivity
 reading for the E14-31 was
 34 mmb/m.
 Geophysical survey started in
 SW corner of filled area.
 Station 00 ~ 30 ft south of
 end of fill and 15 feet
 east of road.



Instrument readings were
 recorded at 30 foot intervals.

24th Nov 1952

South of

Waves
Interacts

a 75 gal reservoir tank. —
 1530 collect well sample SW-01. No
 readings above blank on any element
 in statements (total metal water is
 clear,

1530 - collect subsurface soil sample 1
 SW-05 from former surface impact
 location ~400 ft east of road in
 area of briars and young second
 growth pines. All TAT members
 dressed out in level C —

Reading SEC ppm HILL, + 65 ppm CIA
 in auger hole. 14 to 200 ppm
 1-2 ft above hole. 05 ppm in
 breathing zone. Sample collected
 12-18 inches below surface, soil
 went from ~~buff colored red~~ ^{red} ~~grass~~ ^{at} natural
 redish br clay to buff colored med
 fm sand. Both media collected
 in sample, —

1530 subsurface soil sample SW-06
 collected ~ 25 ft farther east
 of SW-05, 700 ppm on HILL, in
 auger hole, 350 ppm on CIA.
 Sample collected 14 inches below
 surface. Dark grey-black soil.

1630 - IDell sample SW-02 collected
 from ~~FASTER~~ well. Well allowed
 to run for 20 min prior to
 sampling. This well is located
 ~400 ft downhill of surface
 impoundment. Water is clear
 no reading on statements.

tank. —
ple NW-01. No
in air mouth.
sh water is

soil sample
surface impurities
st of road in
such young second
TAT members
level C —
m³, + 650 ppm EVA
"A" to 200 ppm
m³. 45 ppm in
ample collected
low surface soil
bred ~~that grass~~ ^{at} natural
buff colored med
media collected

exc SB-06
Further east
on HWY 4 in
in on OVA.
14 inches below
black soil.
1-02 collected
"1". Well alleged
in prior to
is located
surface
ter is clear
instruments

This well is located in
erosional gully. Runoff from
the Festeks Arm may enter
this gully.
1800 - Arrive back at Weston, drop
van off.

1930 - Samples delivered to Ecotek —
Phillip Anderson 3/27/90 —

Wed March 29 1990. 0800 - Arrive at Weston.
Load out equipment in EPA 1086.
Power Auger borrowed from NUS
FIT loaded, in my pickup truck,
no EPA vehicles available.
1000 - Arrive at Basket Creek, set
up to collect subsurface soil sample
SB-01 from drum disposal area
Location selected 10 ft down gradient
of magnetic anomaly near north
end of filled area. Air monitoring
instruments calibrated, used little
Batter to power auger 3 flights
~ 8 ft. Hit what appeared to be
undisturbed soil at bottom of hole.
No readings on HNU or OVA above
background, no signs of any waste.
Decided to try and hand auger
in the middle of magnetic
anomaly. Area of fairly thick
brays coincident with anomaly.
Hand augered down ~ 20 inches.
Reading of 7-10 ppm in
hole on HNU. SB-01 is

19 0043

collected at this location.
Saprolite (weathered rock) hit
at bottom of hole.
Sample collected at 1145.

Attempts made to collect SB-2m.
Approx 20 auger holes attempted
in second major magnetic
anomaly located in SW portion
of filled area. At a depth averaging
4 ft below surface consistent
auger refusal. Auger is hitting
drums probably at most locations.
Also at all locations bits of
charcoal encountered just above
drums. This substantiates Mrs
Foster's statement that drum
disposal rapine caught fire
and burned for 4 days before
fire dept could put it out.
At one location, reading of
10 ppm on HNU at 4 ft deep
hole with drum definitely at
bottom of hole. Unable to collect
sample due to presence of
drum. No readings on HNU above
1 ft at any of the other
auger holes. Since soil above
drums does not appear to be
contaminated and unable to
penetrate below drums, no
additional subsurface soil
samples were collected. This

1 9 0044

is location.
 (red rock) hit

at 1145—

collected SB-03
 holes attempted

7 magnetic

in SW portion

at a depth averaging
 face consistent

uger is hitting
 at most location

thous bits of
 metal just above

stantakos HOS

t that drum

caught fire

4 days before

it out,

reading of

4 ft deep

definitely at

unable to collect

presence of

3 on HMA above

the other

see soil above

it appears to be

unable to

drums, no

trace soil

collected. This

area is located just up hill
 of area where small amount
 of leachate coming out at
 toe of landfill. Sediment sample
 collected at this location
 yesterday. This sample will give
 evidence as to what sort of
 chemicals present in drum

ATTACHEMNT D

TABLE OF WITNESSES

Shane Hitchcock, OSC
U.S. Environmental Protection Agency
Emergency Response Branch, Region IV
345 Courtland Street, NE
Atlanta, GA 30365
(404) 347-3931

Phil Henderson, TAT
Tim Neal, TAT
Keith LaGuaite, TAT
Roy F. Weston, Inc., Major Programs Division
Suite 120, 100 Atlanta Technology Center
1575 Northside Drive, NW
Atlanta, GA 30318
(404) 352-4147

Harriet Foster
7840 Basket Creek Road
Douglasville, Georgia 30135
(404) 489-2515

ATTACHMENT E
SITE SAFETY PLAN

WESTON SPER DIVISION
HAZARDOUS WASTE SITE INVESTIGATION AND EMERGENCY RESPONSE
HEALTH AND SAFETY PLAN

U.S. EPA CONTACT: Shane Hitchcock
 Date of Inspection: 5/9/90 Time: 1330 TDD No. 04-9003-10
 Original Safety Plan: Yes ☒ No ☐ PCS No. 3110
 Admendment/Modification No. _____

SITE SAFETY COORDINATOR: Phillip Henderson

Site Name: Basket Creek Drum Burial Site

Site Address: Street No. 7840 Basket Creek Road
 City Douglasville
 County Douglas
 State GA Zip Code 30135

Site Contact: Harriet Foster Phone (404) 489-2515

Directions to Site: (Attach Map) I-20 W to Hwy 5. South on Hwy 5 to Rt 166 (Go left). Take 1st Right on Gapps Ferry Rd. Go ~1.5 miles then take left on Basket Creek Rd.

SITE HISTORY: Waste oil and solvents were illegally disposed by Young Refinery Corporation of Douglasville GA on a parcel of land owned by Mr Lee Wallace. This took place in 1976. Drums of waste were dumped into a surface impoundment at one location on the property. In a ravine on the property at least 80 drums were dumped and then covered with dirt.

INCIDENT DESCRIPTION

TYPE: A) Spill ☐ Air Release ☐ Fire ☐ HW Site ☒ Other ☐
 B) Assessment ☒ Sampling ☒ Emergency Response ☐
 Clean-up/Removal ☐ Other (specify) _____
 C) Urban/Residential ☐ Commercial ☐ Industrial ☐
 Rural ☒ Remote ☐

PERSONNEL PHYSICAL SAFETY HAZARDS:

Heat ☐ Cold ☐ Noise ☐ Underground Utilities ☐
 Overhead Utilities ☐ Heavy Equipment ☐ Slip, Trip, Fall ☒
 Confined Spaces ☐ Pressurized Airlines ☐ Explosive ☐
 Ladders ☐ Scaffolds ☐ Unguarded Openings-Wall, Floor ☐
 Liquids in Open Containers, Ponds/Lagoons ☒
 Other _____

CHEMICAL CONTAMINANTS OF CONCERN

CONTAMINANT	TLV PEL	IDIH	PHYSICAL CHARACTERISTICS	ROUTE OF EXPOSURE	SYMPTOMS OF ACUTE EXPOSURE	FIRST AID	INSTRUMENTS TO DETECT
Benzene	10ppm	Potential Carcinogen	Colorless liquid Aromatic odor	Inh, Ing Absorb.	Int Resp System nausea fatigue	Medical Attn Wash Skin	IP 9.25eV
Methyl ethyl ketone	200ppm	3000ppm	Clear colorless liquid Fragrant, mint-like odor	Inh. Ing	Irrt. eyes nose head dizz. + vomit	Wash, fresh air Medical Attn for Ing	IP 9.48eV
trichloroethylene	100ppm	Potential Carcinogen	Colorless liquid. Sweet odor like chloroform	Inh Ing Skin contact	Inh - vertigo, vis dist Ing - tremors, somnolence Con - nau, vomit, irrit eyes derm, card arrhy.	Wash Medical Attn	IP 9.47eV
ethyl benzene	100ppm	2000ppm	Colorless liquid. Aromatic odor	Inh Ing	Inh - irrit eyes muc mouth Ing - Head, derm. narco coma	Err immed Medical Attn	IP 8.76eV
Xylene	100ppm	1000ppm	Colorless liquid aromatic odors	Inh, Abs Ing	Dizz, excitement, inco, irrit resp vomit abdom pain	Medical Attn	IP 8.56eV
Toluene	200ppm	2000ppm	Colorless liquid Aromatic odor	Inh Ing Con	Irrt nose throat choke muc fty inson	Medical Attn	IP 8.82eV
Tetrachloroethene	100ppm	Potential Carcinogen	Colorless liquid Odor like ether or chloroform	Inh, Abs, Ing Con	Acne form derm fty anor liver inj	Medical Attn	IP 9.32
Acetone	1000ppm	20,000ppm	Colorless liquid mint like odor	Inh Ing Con	Irrt eyes nose throat dizz derm	Medical Attn	IP 8.69
Phenol	5ppm	250ppm	Colorless to pink solid or thick liquid with char sweet tangy odor	Inh Abs Ing Con	Irrt eyes nose throat muscle pain dark urin liver Kidney damage	Med Attn	IP 8.5eV
PCB's	.5mg/m	Potential Carcinogen 5mg/m		Inh Abs Ing Con	Irrt eyes skin muscle mouth liver damage	Medical Attn	

Description of Decontamination To Be Used: Rubber boots will be washed
with soap & water. Gloves & Tyvek disposed of.

* Initial site inspection will not include any sampling. When sampling is conducted
plan will be modified according to findings of inspection.

TOD# _____ POS# _____

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): _____

DOCUMENTATION

PERFORMED BY: _____

Type: Photo _____ Log Book _____ Recorder _____ Video _____

PHYSICAL DESCRIPTIONSize of Site: _____ Topography _____
Terrain: _____ Weather _____Distance to Nearest: Residence _____ School _____ Hospital _____
Public Building _____ Other _____

Evacuation: Yes _____ No _____ Number _____ By Whom _____

Nearest Waterway: _____ Distance: _____

<u>Condition</u>	<u>Observed</u>	<u>Potential</u>	<u>None</u>
Surface Water Contamination	_____	_____	_____
Ground Water Contamination	_____	_____	_____
Drinking Water Contamination	_____	_____	_____
Air Contamination	_____	_____	_____
Soil Contamination	_____	_____	_____
Stressed Vegetation	_____	_____	_____
Dead Fish, Other Animals	_____	_____	_____

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)

Was Entry Made by TAT: YES _____ NO _____

TASK CONDUCTED: on 3/28 - 3/29/90
Describe Specific PPE Used and Why

- 1) Offsite sampling; private wells, surface water, sediment level D, Rubber boots, latex inner, nitrile outer gloves. No visible contamination no readings above bkgd, on air monitoring inst.
- 2) Onsite subsurface soil sampling - Level C, Rubber boots, Tyvek, latex inner, nitrile outer gloves, GMC-H cartridges, Hand Augering into area where drums of solvents suspected to be ~~are~~ buried, up to 500 ppm in auger hole. < 5 ppm in breathing zone

AIR MONITORING LOG

OVA Calibration 3/4/90
 HNU Calibration 3/4/90
 CGI Calibration 3/4/90

Background O₂ 11.2
 Organics 1.2 ppm
 Radiation 2.50

CGI

(ATTACH CALIBRATION DATA TO LOG)

S I T E N A M E

STATION/ LOCATION	DATE	TIME	NAME OF AIR MONITOR	TYPE OF EQUIPMENT (HNU (PROBE/SPAN), CGI, OVA, RAD MTR)	READING	SUMMARY/COMMENTS
Background	3/4/90	1345	Phil Henderson	HNU w 10.2 probe OVA CGI	0 ppm 1.1 ppm 2.10	
Drum Disposal Area	3/4/90	1400	Tim Neal	HNU w 10.2 probe OVA CGI	0 1 ppm 2.10	Entire filled area to be sampled No readings above background
Downgradient Spring	3/4/90	1410	Tim Neal	HNU OVA CGI	0 ppm 1.1 ppm 2.10	No readings above background OVA and HNU high but not above background
Surface Impoundment	3/4/90	1430	Phil Henderson	HNU OVA CGI	0 ppm 1.1 ppm 2.10	

AIR MONITORING LOG

CGI Calibration 3/27/90 3/28
 HUD Calibration 3/27/90 3/28
 OGI Calibration 3/27/90 3/28

Background O₂
 Organics 1-2 ppm OVA - 0 ppm HNU
 Radiation 2.2/90

(ATTACH CALIBRATION DATA TO LOG)

CGI

STYEP NAME

LOCATION	DATE	TIME	NAME OF AIR MONITOR	TYPE OF EQUIPMENT (HNU (PROBE/SPAN), OGI, OVA, RAD MTR	READING	SUMMARY/COMMENTS
Sediment sample Surface water sample	3/27/90	1340 1400	Tim Neal Tim Neal	HNU 10.2 Probe 9.8 OVA	0 1 ppm	Nothing above bkgd.
Private well sample Parker Residence	3/27/90	1500	P. Henderson	HNU OVA	0 1 ppm	Nothing above bkgd
Subsurface soil 38-05 (surface & impant)	3/27/90	1530	K. LaGarde	HNU OVA HNU OVA HNU OVA	500 ppm 650 ppm 200 ppm 2.35 ppm 4 ppm 5 ppm	In auger hole 1-2 ft above hole Breathing Zone
Subsurface soil 38-06 (surface & impant)	3/27/90	1530	Henderson	HNU OVA HNU OVA	500 ppm 350 ppm 1 ppm 3 ppm	In auger hole Breathing Zone
Private well sample Foster Residence	3/27/90	1630	Neal	HNU OVA	0 1 ppm	Nothing above bkgd
Subsurface soil 38-07 (surface & impant)	3/27/90	1645	Henderson	HNU OVA	0 ppm 1 ppm	In Auger hole. Breathing Zone

SAMPLING: CONDUCTED? YES _____ NO _____

If Yes, Describe Sampling Method _____

Has Lab Been Notified of Potential Hazard Level? Yes ___ No ___ NA ___

Note: This Health and Safety Plan was prepared for work to be conducted under the Technical Assistance Team (TAT) Contract 68-01-7367 Zone 1. Use of this plan by WESTON and its subcontractors on the TAT contract is intended to fulfill the OSHA requirements found in 29 CFR 1910.120. Items not specifically covered in this plan are included by reference to 29 CFR 1910 and 1926.

I have read and understand this safety plan.

<u>NAME (PRINTED)</u>	<u>SIGNATURE</u>	<u>AFFILIATION</u>	<u>DATE</u>
Phillip Henderson	Phillip Henderson	Weston	3/9/90
J.B. [Signature]	Timothy B. NEAC	TAT	3/9/90
Keith Loggans	Keith Loggans	TAT	4/1/90

Final Submission of Plan by _____ Date _____

Post Response Approval Conley B. [Signature] Date 4/26/90

Copy to ZPMO _____ Date _____

SPER HSO Reviewed by: _____ Date: _____
 Followup Required: Yes ___ No ___
 Followup Performed: Date: _____ With: _____
 Comments: _____

JOB SAFETY & HEALTH PROTECTION

1 9

0053

The Occupational Safety and Health Act of 1970 provides job safety and health protection for workers by promoting safe and healthful working conditions throughout the Nation. Requirements of the Act include the following:

Employers

All employers must furnish to employees employment and a place of employment free from recognized hazards that are causing or are likely to cause death or serious harm to employees. Employers must comply with occupational safety and health standards issued under the Act.

Employees

Employees must comply with all occupational safety and health standards, rules, regulations and orders issued under the Act that apply to their own actions and conduct on the job.

The Occupational Safety and Health Administration (OSHA) of the U.S. Department of Labor has the primary responsibility for administering the Act. OSHA issues occupational safety and health standards, and its Compliance Safety and Health Officers conduct jobsite inspections to help ensure compliance with the Act.

Inspection

The Act requires that a representative of the employer and a representative authorized by the employees be given an opportunity to accompany the OSHA inspector for the purpose of aiding the inspection.

Where there is no authorized employee representative, the OSHA Compliance Officer must consult with a reasonable number of employees concerning safety and health conditions in the workplace.

Complaint

Employees or their representatives have the right to file a complaint with the nearest OSHA office requesting an inspection if they believe unsafe or unhealthful conditions exist in their workplace. OSHA will withhold, on request, names of employees complaining.

The Act provides that employees may not be discharged or discriminated against in any way for filing safety and health complaints or for otherwise exercising their rights under the Act.

Employees who believe they have been discriminated against may file a complaint with their nearest OSHA office within 30 days of the alleged discrimination.

Citation

If upon inspection OSHA believes an employer has violated the Act, a citation alleging such violations will be issued to the employer. Each

citation will specify a time period within which the alleged violation must be corrected.

The OSHA citation must be prominently displayed at or near the place of alleged violation for three days, or until it is corrected, whichever is later, to warn employees of dangers that may exist there.

Proposed Penalty

The Act provides for mandatory penalties against employers of up to \$1,000 for each serious violation and for optional penalties of up to \$1,000 for each nonserious violation. Penalties of up to \$1,000 per day may be proposed for failure to correct violations within the proposed time period. Also, any employer who willfully or repeatedly violates the Act may be assessed penalties of up to \$10,000 for each such violation.

Criminal penalties are also provided for in the Act. Any willful violation resulting in death of an employee, upon conviction, is punishable by a fine of not more than \$10,000, or by imprisonment for not more than six months, or by both. Conviction of an employer after a first conviction doubles these maximum penalties.

Voluntary Activity

While providing penalties for violations, the Act also encourages efforts by labor and management, before an OSHA inspection, to reduce workplace hazards voluntarily and to develop and improve safety and health programs in all workplaces and industries. OSHA's Voluntary Protection Programs recognize outstanding efforts of this nature.

Such voluntary action should initially focus on the identification and elimination of hazards that could cause death, injury, or illness to employees and supervisors. There are many public and private organizations that can provide information and assistance in this effort, if requested. Also, your local OSHA office can provide considerable help and advice on solving safety and health problems or can refer you to other sources for help such as training.

Consultation

Free consultative assistance, without citation or penalty, is available to employers, on request, through OSHA supported programs in most State departments of labor or health.

More Information

Additional information and copies of the Act, specific OSHA safety and health standards, and other applicable regulations may be obtained from your employer or from the nearest OSHA Regional Office in the following locations:

Atlanta, Georgia
Boston, Massachusetts
Chicago, Illinois
Dallas, Texas
Denver, Colorado
Kansas City, Missouri
New York, New York
Philadelphia, Pennsylvania
San Francisco, California
Seattle, Washington

Telephone numbers for these offices, and additional area office locations, are listed in the telephone directory under the United States Department of Labor in the United States Government listing.

Washington, D.C.
1985
OSHA 2203



William E. Brock

William E. Brock, Secretary of Labor

U.S. Department of Labor

Occupational Safety and Health Administration

Under provisions of Title 29, Code of Federal Regulations, Part 1903.2(a)(1) employers must post this notice (or a facsimile) in a conspicuous place where notices to employees are customarily posted.

Name	Comments/572	PCS	Date
Phil Henderson	Basket Creek Drain	3110	3/9/90
Phil Henderson	Field Calib	3110	3/9/90
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK
		50 ppm/10.2/98	OK

DATE	PUMP	BATTERY	LOW	HIGH	LEL	add	cal	Read	HS	Notes
1/3/80	OK	OK	19%	24%	25%	50%	50%	2974	2972	DJB 9 M5KEN
1/5/80	OK	OK	19.5%	24%	25%	50%	50%			
1/10/89										
1/19/89	OK	OK	19.5%	24%	25%	50%	50%	3006	3006	Huckaby
2/6/90	OK	OK	19%	24%	25%	50%	50%	3037	2922	Sunderland
2/14/90	OK	OK	19%	24%	25%	50%	50%	*		Loganite
2/20/90	Performance B.Y. M5ME + Factory Calibration									
2/21/90	OK	OK	19.5%	24%	25%	50%	50%	3086	3086	Zingwall
2/21/90	OK	OK	19.5%	24%	25%	50%	40%	3086	3086	Zingwall
2/21/90	OK	OK	19.5%	24%	25%	50%	48	3086	3086	Zingwall
2/22/98	OK	OK	19.5%	24%	25%	50%	48	3086	3086	Zingwall
2/22/98	OK	OK	19.5%	24%	25%	50%	48	3086	3086	Zingwall
2/8/90	Battery Replaced & Installed - 15% O2									
3-9-90	OK	OK	19.5%	24%	25%	50%	50%	3110	3110	Paul Hendegson
3-9-90	OK	OK	19.5%	24%	25%	50%	50%	3110	3110	Paul Hendegson
3-9-90	OK	OK	19.5%	24%	25%	50%	50%	3110	3110	Paul Hendegson

Name	Comments/5 to	PCS	Cal Reading
Paul Henderson	Basket Creek Dam	3110	50 ppm/10.2/9.8 ppm
Field Calib		310	50 ppm/10.2/9.8
Devery + Along Creek		3108	50 ppm/10.2/9.8
Office Chair		0015	50 ppm/10.2/9.8
Henderson	Basket Creek	3110	50 ppm/10.2/9.8
Henderson	Basket Creek (Field Calib)	3110	50 ppm/10.2/9.8
Henderson			50 ppm/10.2/9.8
3/9/90			OK
3/9/90			OK
3/13/90			OK
3/14/90			OK
3/27/90			OK
3/27/90			OK
3/28/90			OK
3/28/90			OK

3/1/90	OK	OK	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3109	Derrick
3/8/90	OK	OK	OK	fast	99.6 @ 3.0	99.6 @ 3.0	3109	Derrick
3/9/90	OK	OK	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3110	Hendrick
3/14/90	OK	OK	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3110	Hendrickson
3/15/90	OK	OK	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3110	Dubois
3/17/90	OK	OK	OK	MED	99.6 @ 3.0	99.6 @ 6.6	3136	Dubois
3/18/90	OK	OK	OK	MED	99.6 @ 3.0	99.6 @ 7.10	3136	Dubois
3/19/90	OK	OK	OK	MED	99.6 @ 3.0	99.6 @ 7.1	3136	Shair
3/26/90	OK	Fast	OK	Fast	99.6 @ 3.0	99.6 @ 3.0	3136	Hendrick
3/27/90	OK	OK	OK	2nd time	99.6 @ 3.0	99.6 @ 4.2	3136	Laguna
3/27/90	OK	OK	OK	1st time	99.6 @ 3.0	99.6 @ 4.2	3136	Laguna
3/28/90	OK	OK	OK	1st	99.6 @ 3.0	99.6 @ 7.6	3136	Laguna

Date	BATT	VICTOREEN RAD METER	EPA # 190512	Field Cal	MT
1/26/90	OK	Source Check 270 c/m	3028	Field Cal	MCKEEN
1/31/90	OK	250 c/m	0012	OFFICE CAL	Ringwald
2/7/90	OK	200 c/m @ 10x	0012	On Call	Cannon
2/19/90	OK	210 c/m @ 10x	0015	OFFICE CALL	MOORE
2/20/90	OK	260 c/m @ 10x	3070	Oyster Shell	Waller
2/21/90	OK	200 c/m @ 10x	3077	Field Cal	Sammy Benfield
3/1/90	OK	200 c/m @ 10x closed	3102	Office Cal	Benfield
3/2/90	OK	210 c/m @ 10x closed	3102	Field - Munis Port	Benfield
3/6/90	OK	400 c/m @ 10x open	3109	Byromville dam	Dawbarr
3/20/90	OK	1400 c/m @ 10x cap	3110	Office	NEAC
3/27/90	OK	400 c/m @ 10x cap	3110	Basket creek RD. dam.	NEAC

TASK TO BE PERFORMED	ANTIC. LEVEL OF PROTECT.	COVERALL	GLOVE IN/OUT.	AIR PURIF RESPIRATO CART/CANN
Site Inspection	D/C	Tyvek	latex/Nitrile	GMC-14
Continuation of Verbal				
Report & Photo Assigned				
Remove Area from Property				

* No sampling will be conducted during initial inspection. Initial approach will be Anticipated Monitoring level B w/ monitoring inst. If any readings above bckgrd level C.

Radiation Meter [X] CGI [X] HNU [X] 10.2 eV Probe OVA [X]

Detector Tube [] Other _____
EMERGENCY PHONE NUMBERS: LOCATION PHONE NOTIFIED

FIRE	Douglasville	949-1212	
POLICE	Douglasville	942-3211	
AMBULANCE	Douglasville	949-1212	
Douglas General Hospital	Douglasville	949-1500	Yes

CHEMICAL TRAUMA CAPABILITY? Yes

DIRECTIONS TO HOSPITAL: (ATTACH MAP) RTE. VERIFIED BY _____ DATE _____

Go north on Basket Ferry Rd. Take rt on Capps Ferry Rd. Go left on Rt 166 ~ 1/4 mi. Turn Rt on Hwy 5 (North). Go to I-20 E. Take I-20 E to Priestly Mill Rd Exit Go left (West) Hospital 1/2 mi on left

ADDITIONAL EMERGENCY PHONE CONTACTS:

CHEMTREC	(800) 424-9300
TSCA HOTLINE	(800) 424-9065, (202) 544-1404
ATSDR	(DAY) (404) 329-2888
	(NIGHT) (404) 566-7777
AT & F (EXPLOSIVES INFO.)	(800) 424-9555
NATIONAL RESPONSE CENTER	(800) 424-8802
WESTON MEDICAL EMERGENCY SERVICE	(513) 421-3063
WESTON 24 HOUR HOTLINE	(215) 524-1925, 1926
PESTICIDE INFORMATION SERVICE	(800) 845-7633
EPA ERT EMERGENCY	(201) 321-6660
RCRA HOTLINE	(800) 424-9346
CMA CHEMICAL REFERRAL CENTER	(800) 262-8200
NATIONAL POISON CONTROL CENTER	(800) 942-5969
U.S. DOT	(202) 366-0656 (Day only)

Prepared by: Phillip Henderson Date: 3/7/90
Pre-Response Approval by: KMK Date: 3/7/90

TDD# _____ PCS# _____

OBSERVED CONDITIONS/ACTIVITIES

Describe Initial Conditions (Source/Type/Quantity): Ravine where
drums buried filled (2-10ft) with dirt. No drums
visible. Several empty drums noted. No readings above
bckgrd on air monitoring equip. Former surface impdmt
covered with dirt/grass also. No waste visible. Several
empty drums, downhill of impoundment

DOCUMENTATIONPERFORMED BY: Phil HendersonType: Photo X Log Book X Recorder _____ Video _____PHYSICAL DESCRIPTION

Size of Site: 3-5 acres Topography _____
 Terrain: Hilly Weather _____

Distance to Nearest: Residence 30ft School _____ Hospital _____

Public Building _____ Other _____

Evacuation: Yes _____ No _____ Number _____ By Whom _____

Nearest Waterway: _____ Distance: _____

<u>Condition</u>	<u>Observed</u>	<u>Potential</u>	<u>None</u>
Surface Water Contamination	_____	<u>✓</u>	_____
Ground Water Contamination	_____	<u>✓</u>	_____
Drinking Water Contamination	_____	<u>✓</u>	_____
Air Contamination	_____	_____	_____
Soil Contamination	_____	<u>✓</u>	_____
Stressed Vegetation	_____	_____	<u>✓</u>
Dead Fish, Other Animals	_____	_____	_____

ACTIONS TAKEN ON SITE: (Attach Map of Site Control Zones)Was Entry Made by TAT: YES X NO _____TASK CONDUCTED: Describe Specific PPE Used and Why

Site Inspection - Level D - work clothes
+ rubber boots 3/9/90

ATTACHMENT F
ANALYTICAL DATA



100 Atlanta Technology Center, Suite 120, 1575 Northside Drive, NW,
Atlanta, GA 30318 • (404) 352-4147 • FAX (404) 352-0659

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

MEMORANDUM

TO: File

FROM: Donnissa L. Duvic *DD*
TAT, Region IV

THRU: Conley B. Phifer *CBP*
TATL, Region IV

SUBJECT: Basket Creek Analytical Data
TDD# 04-9003-L05-0885
TAT# 04-F-03933

DATE: 18 April 1990

EcoTek Laboratory Services, Inc., conducted the requested full scan analyses on four soil and three water samples from the Basket Creek site. The data package was received on the requested due date.

The inorganic QC data conducted on sample SB05 revealed that antimony, arsenic, mercury, selenium, silver and thallium had matrix spike recoveries below the acceptable range of $\pm 25\%$. Duplicate analysis of this sample revealed calcium, chromium, copper, magnesium, manganese, nickel and potassium to have a relative percent difference exceeding 20% between original and duplicate data.

The volatile blank run in conjunction with samples PW01, PW02 and SW01 contained 2 J(ppb) of methylene chloride, 7 J(ppb) of acetone and 6 J(ppb) of 2-butanone. The concentrations of these compounds detected in samples PW01, PW02 and SW01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

In Association with ICF Technology, Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc.,
and R.E. Sarriera Associates

The volatile blank run in conjunction with samples SB05 and SB06 contained 2 J(ppb) of methylene chloride and 14 (ppb) of acetone. The concentration of acetone detected in samples SB05 and SB06 is valid because it exceeds ten times the concentration detected in the blank. Methylene chloride was not detected in either sample.

The volatile blank run in conjunction with sample SB01 contained 6 (ppb) of methylene chloride, 9 J(ppb) of acetone, 8 J(ppb) of 2-butanone and 3 J(ppb) of 4-methyl-2-pentanone. The concentration of these compounds detected in sample SB01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

The volatile blank run in conjunction with sample SD01 contained 6 (ppb) of methylene chloride, 45 (ppb) of acetone and 18 (ppb) of 2-butanone. The concentration of these compounds detected in sample SD01 should be disregarded, as they do not exceed ten times the concentration detected in the blank.

The volatile matrix spike and matrix spike duplicate recovery data for toluene was found to be below QC guidelines. All other volatile spike recovery data revealed acceptable percentages.

The semivolatile blank run in conjunction with samples PW01, PW02, and SW01 contained 4 J(ppb) of bis(2-ethylhexyl)phthalate. The concentration of this compound detected in each sample should be disregarded as it does not exceed five times the concentration detected in the blank.

The semivolatile blank run in conjunction with samples SB01, SB05, SB06, and SD01 contained 67 J(ppb) of Butylbenzylphthalate and 110 J(ppb) of bis(2-ethylhexyl)phthalate. Butylbenzylphthalate was not detected in sample SB01, however it was detected in samples SB05 and SB06. The concentration detected in sample SB05 is valid as it exceeds the blank concentration by more than five times. The concentration detected in sample SB06 should be disregarded as it is less than the concentration detected in the associated blank. The concentration of bis(2-ethylhexyl)phthalate detected in sample SB01 should be disregarded as it is less than five times the concentration detected in the blank. Samples SB05 and SB06 contained bis(2-ethylhexyl)phthalate at concentrations greatly exceeding the levels found in the associated blank.

I have requested the lab to rerun bis(2-ethylhexyl)phthalate for sample SB06 as the reported concentration exceeded the calibration limit.

Two out of four semivolatile surrogate compounds revealed an unacceptable recovery. Three out of eleven semivolatile matrix spike compounds and one out of eleven matrix spike duplicate compounds revealed recoveries outside of the QC guidelines.

The QC data conducted for the pesticide fraction revealed all surrogate and spike data to be unacceptable due to the elevated levels of Aroclor-1254 detected in the sample which subsequently caused interferences.

All organic QC analyses were conducted on sample SB05.

A summary of the analytical data is found on the following pages.

cc: Shane Hitchcock
Phil Henderson

April 12, 1990

Donnissa L. Duvic
Roy F. Weston, Inc.
100 Atlanta Technology Center, Suite 120
1575 Northside Drive, NW
Atlanta, GA 30318

Basket Creek
9003-L05-0885

re: TDD# 04-9003-L05-0885
TAT# 04-F-03892

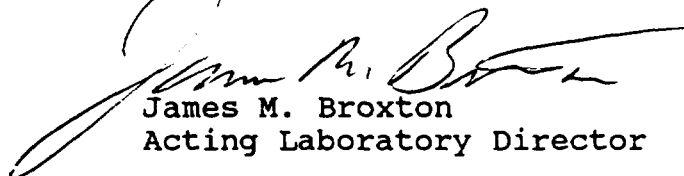
Dear Ms. Duvic

Enclosed along with this letter are the results for the seven samples received on March 28 and March 30, 1990.

If you have any questions or comments, please do not hesitate to contact me or Ms. Sushama Paranjape at (404) 244-0827. Also, please refer to LSDG number 0054/56 in future correspondence. Thank you.

Sincerely,

ECOTEK LABORATORY SERVICES, INC.


James M. Broxton
Acting Laboratory Director

JMB/pef

ENVIRONMENTAL PROTECTION AGENCY
ON 4 TAT

CHAIN OF CUSTODY RECORD

ENVIRONMENTAL SERVICES
COLLEGE STATION ROAD
ATHENS, GEORGIA 30613

204 F. WESTON, INC.
404.352-4147

[illegible]

2002

T4- 1557

190033

1
INORGANIC ANALYSIS DATA SHEET

PW01

Lab Name: ECOTEK LSI CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): WATERLab Sample ID: 005401Level (low/med): LOWDate Received: 3/28/90% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	101.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	5400.00			P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	127.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	400.00	B		P
7439-96-5	Manganese	5.00	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1400.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	5100.00			P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	31.00			P
	Cyanide	10.00	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

PW02

Lab Name: ECOTEK LSI CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): WATERLab Sample ID: 005402Level (low/med): LOWDate Received: 3/28/90% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	117.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	13500.00			P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	1016.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	2900.00	B		P
7439-96-5	Manganese	172.00			P
7439-97-6	Mercury	1.45			CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1600.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	4500.00	B		P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	20.00	U		P
	Cyanide	10.00	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

SB01

Lab Name: ECOTEK LSI CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): SOILLab Sample ID: 005601Level (low/med): LOWDate Received: 3/30/90% Solids: 80.0Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	36487.50			P
7440-36-0	Antimony	12.50	U		P
7440-38-2	Arsenic	20.48			F
7440-39-3	Barium	157.75			P
7440-41-7	Beryllium	1.50			P
7440-43-9	Cadmium	5.00			P
7440-70-2	Calcium	475.00			P
7440-47-3	Chromium	49.75			P
7440-48-4	Cobalt	15.75			P
7440-50-8	Copper	42.50			P
7439-89-6	Iron	49505.00			P
7439-92-1	Lead	40.35			F
7439-95-4	Magnesium	3150.00			P
7439-96-5	Manganese	232.25			P
7439-97-6	Mercury	0.12			CV
7440-02-0	Nickel	21.75			P
7440-09-7	Potassium	2750.00			P
7782-49-2	Selenium	1.25	U		F
7440-22-4	Silver	2.50	U		P
7440-23-5	Sodium	1650.00			P
7440-28-0	Thallium	0.75	U		F
7440-62-2	Vanadium	106.50			P
7440-66-6	Zinc	94.75			P
	Cyanide	0.31	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

SB05

Lab Name: ECOTEK LSICLIENT: RFWCode: ECOTEK

Case No.: _____

SAS No.: _____

SDG No.: _____

Matrix (soil/water): SOILLab Sample ID: 005404Level (low/med): LOWDate Received: 3/28/90% Solids: 82.2Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	23009.73			P
7440-36-0	Antimony	12.17	U		P
7440-38-2	Arsenic	4.87			F
7440-39-3	Barium	58.15			P
7440-41-7	Beryllium	0.24	B		P
7440-43-9	Cadmium	6.33			P
7440-70-2	Calcium	48.66	B		P
7440-47-3	Chromium	312.90			P
7440-48-4	Cobalt	7.30	U		P
7440-50-8	Copper	34.06			P
7439-89-6	Iron	59416.06			P
7439-92-1	Lead	667.88			P
7439-95-4	Magnesium	632.60	B		P
7439-96-5	Manganese	98.30			P
7439-97-6	Mercury	38.20			CV
7440-02-0	Nickel	82.73			P
7440-09-7	Potassium	1046.23			P
7782-49-2	Selenium	1.22	U		F
7440-22-4	Silver	2.43	U		P
7440-23-5	Sodium	2068.13			P
7440-28-0	Thallium	0.73	U		F
7440-62-2	Vanadium	30.90			P
7440-66-6	Zinc	66.42			P
	Cyanide	0.30	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

SB06

Lab Name: ECOTEK LSI CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): SOILLab Sample ID: 005405Level (low/med): LOWDate Received: 3/28/90% Solids: 79.7Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	17872.02			P
7440-36-0	Antimony	12.55	U		P
7440-38-2	Arsenic	11.12			F
7440-39-3	Barium	103.14			P
7440-41-7	Beryllium	0.25	B		P
7440-43-9	Cadmium	17.57			P
7440-70-2	Calcium	100.38	B		P
7440-47-3	Chromium	192.97			P
7440-48-4	Cobalt	14.05			P
7440-50-8	Copper	63.49			P
7439-89-6	Iron	157377.67			P
7439-92-1	Lead	2579.67			P
7439-95-4	Magnesium	1405.27			P
7439-96-5	Manganese	41.41			P
7439-97-6	Mercury	3553.68			CV
7440-02-0	Nickel	13.55			P
7440-09-7	Potassium	1355.08			P
7782-49-2	Selenium	1.25	U		F
7440-22-4	Silver	2.51	U		P
7440-23-5	Sodium	5370.14			P
7440-28-0	Thallium	0.75	U		F
7440-62-2	Vanadium	47.43			P
7440-66-6	Zinc	156.34			P
	Cyanide	1.49			C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

SD01

Lab Name: ECOTEK LSI- CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): SOIL Lab Sample ID: 005406Level (low/med): LOW Date Received: 3/28/90% Solids: 76.9Concentration Units (ug/L or mg/kg dry weight) MG/KG

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13693.11			P
7440-36-0	Antimony	13.00	U		P
7440-38-2	Arsenic	7.06			F
7440-39-3	Barium	34.33	B		P
7440-41-7	Beryllium	0.78	B		P
7440-43-9	Cadmium	2.86			P
7440-70-2	Calcium	234.07	B		P
7440-47-3	Chromium	35.37			P
7440-48-4	Cobalt	7.80			P
7440-50-8	Copper	15.34			P
7439-89-6	Iron	32959.69			P
7439-92-1	Lead	8.87			F
7439-95-4	Magnesium	1170.35	B		P
7439-96-5	Manganese	113.65			P
7439-97-6	Mercury	0.30			CV
7440-02-0	Nickel	9.10	U		P
7440-09-7	Potassium	1092.33	B		P
7782-49-2	Selenium	1.30	U		F
7440-22-4	Silver	2.60	U		P
7440-23-5	Sodium	1118.34	B		P
7440-28-0	Thallium	0.78	U		F
7440-62-2	Vanadium	45.51			P
7440-66-6	Zinc	58.00			P
	Cyanide	0.32	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

1
INORGANIC ANALYSIS DATA SHEET

SW01

Lab Name: ECOTEK LSI CLIENT: RFWCode: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): WATER Lab Sample ID: 005403Level (low/med): LOW Date Received: 3/28/90% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight) UG/L

CAS.No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	148.00	B		P
7440-36-0	Antimony	50.00	U		P
7440-38-2	Arsenic	5.00	U		F
7440-39-3	Barium	20.00	U		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	5.00	U		P
7440-70-2	Calcium	1500.00	B		P
7440-47-3	Chromium	10.00	U		P
7440-48-4	Cobalt	30.00	U		P
7440-50-8	Copper	25.00	U		P
7439-89-6	Iron	613.00			P
7439-92-1	Lead	3.00	U		F
7439-95-4	Magnesium	1900.00	B		P
7439-96-5	Manganese	67.00			P
7439-97-6	Mercury	0.29			CV
7440-02-0	Nickel	35.00	U		P
7440-09-7	Potassium	1200.00	B		P
7782-49-2	Selenium	5.00	U		F
7440-22-4	Silver	10.00	U		P
7440-23-5	Sodium	1800.00	B		P
7440-28-0	Thallium	3.00	U		F
7440-62-2	Vanadium	15.00	U		P
7440-66-6	Zinc	20.00	U		P
	Cyanide	10.00	U		C

Color Before: _____

Clarity Before: _____

Texture: _____

Color After: _____

Clarity After: _____

Artifacts: _____

Comments:

3
BLANKSName: ECOTEK LSIContract: RFWLab Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Preparation Blank Matrix (soil/water): WATERPreparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum									75.0	U	P
Antimony									50.0	U	P
Arsenic									5.0	U	F
Barium									20.0	U	P
Beryllium									1.0	U	P
Cadmium									5.0	U	P
Calcium									25.0	U	P
Chromium									10.0	U	P
Cobalt									30.0	U	P
Copper									25.0	U	P
Copper									20.0	U	P
Lead									3.0	U	F
Magnesium									10.0	U	P
Manganese									5.0	U	P
Mercury									0.2	U	CV
Nickel									35.0	U	P
Potassium									362.0	U	P
Selenium									5.0	U	F
Silver									10.0	U	P
Sodium									90.0	U	P
Thallium									3.0	U	F
Vanadium									15.0	U	P
Zinc									20.0	U	F
Cyanide									10.0	U	C

5A
SPIKE SAMPLE RECOVERY

1 9 0077

EPA SAMPLE NO.

SB05

Lab Name: ECOTEK LSIContract: RFWLab Code: ECOTEK Case No.: _____ SAS No.: _____

SDG No.: _____

Matrix: SOILLevel (low/med): LOW%SOLIDS: 82.2Concentration Units: (UG/L or MG/KG) MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum			-		-			-	NR
Antimony	75-125	0.0000	U	0.0000	U	121.65	0.0	N	P
Arsenic	75-125	4.7800		4.8700		12.16	-1.8	N	F
Barium	75-125	1246.2300		58.1500		1216.50	97.6		P
Beryllium	75-125	12.6500		0.2400	B	12.16	102.1		P
Cadmium	75-125	17.7600		6.3300		12.16	94.0		P
Calcium									NR
Chromium		359.3700		312.9000		48.66	95.5		P
Cobalt	75-125	122.3800		0.0000	U	121.65	100.6		P
Copper	75-125	89.7800		34.0600		60.83	91.6		P
Iron									NR
Lead	75-125	1664.2300		667.8800		1216.55	81.9		P
Magnesium									NR
Manganese	75-125	209.9800		98.3000		121.65	91.8		P
Mercury	75-125	62.8100		38.2000		95.01	25.9	N	CV
Nickel	75-125	191.4800		82.7300		121.65	89.4		P
Potassium									NR
Selenium	75-125	0.0000	U	0.0000	U	6.08	0.0	N	F
Silver	75-125	0.0000	U	0.0000	U	12.16	0.0	N	P
Sodium									NR
Thallium	75-125	0.0000	U	0.0000	U	12.16	0.0	N	F
Vanadium	75-125	148.4200		30.9000		121.65	96.6		P
Zinc	75-125	176.8900		66.4200		121.65	90.8		P
Cyanide	75-125	0.2420		0.0000		0.30	80.8		C

Comments:

6
DUPLICATES

1 9 0078

EPA SAMPLE NO.

SB05

Lab Name: ECOTEK LSI Contract: RFWLab Code: ECOTEK Case No.: _____ SAS No.: _____ SDG No.: _____Matrix (soil/water): SOIL Level (low/med): LOW% Solids for Sample: 82.2 % Solids for Duplicate: 82.2Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		23009.7300		22180.0500		3.7		P
Antimony		0.0000	U	0.0000	U			P
Arsenic	2.43	4.8700		4.1800		15.2		F
Barium	48.66	58.1500		54.9900		5.6		P
Beryllium		0.2400	B	0.2400	B	0.0		P
Cadmium		6.3300		5.8400		8.1		P
Calcium		48.6600	B	72.9900	B	40.0		P
Chromium		312.9000		91.7300		109.3	*	P
Cobalt		0.0000	U	0.0000	U			P
Copper		34.0600		25.3000		29.5	*	P
Iron		59416.0600		59824.8200		0.7		P
Lead		667.8800		687.3500		2.9		P
Magnesium		632.6000	B	486.6200	B	26.1		P
Manganese		98.3000		33.8200		97.6	*	P
Mercury		38.2000		32.3000		16.7		CV
Nickel		82.7300		8.7600	B	161.7	*	P
Potassium		1046.2300	B	802.9200	B	26.3		P
Selenium		0.0000	U	0.0000	U			F
Silver		0.0000	U	0.0000	U			P
Sodium	1216.55	2068.1300		1873.4800		9.9		P
Thallium		0.0000	U	0.0000	U			F
Vanadium	12.17	30.9000		30.6600		0.8		P
Zinc		66.4200		62.7700		5.7		P
Cyanide		0.0000	U	0.0000	U			C

FORM VI - IN

7/87

0012

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0079
EPA SAMPLE NO.

PW01

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: 005401

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 21158

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	BJ
67-64-1	ACETONE	4.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0013

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0080
EPA SAMPLE NO.

PW02

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: 005402

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 21159

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	BJ
67-64-1	ACETONE	4.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	2.	J
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0014

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0081
EPA SAMPLE NO.

SB01

Name: ECOTEK Contract: RFW
Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: SB01
Matrix: (soil/water) SOIL Lab Sample ID: 005601
Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21140
Level: (low/med) LOW Date Received: 3/29/90
% Moisture: not dec. 20. Date Analyzed: 3/29/90
Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
74-87-3	CHLOROMETHANE	13.	U
74-83-9	BROMOMETHANE	13.	U
75-01-4	VINYL CHLORIDE	13.	U
75-00-3	CHLOROETHANE	13.	U
75-09-2	METHYLENE CHLORIDE	17.	B
67-64-1	ACETONE	17.	B
75-15-0	CARBON DISULFIDE	6.	U
75-35-4	1,1-DICHLOROETHENE	6.	U
75-34-3	1,1-DICHLOROETHANE	6.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	6.	U
67-66-3	CHLOROFORM	6.	U
107-06-2	1,2-DICHLOROETHANE	6.	U
78-93-3	2-BUTANONE	10.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	6.	U
56-23-5	CARBON TETRACHLORIDE	6.	U
108-05-4	VINYL ACETATE	13.	U
75-27-4	BROMODICHLOROMETHANE	6.	U
78-87-5	1,2-DICHLOROPROPANE	6.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	6.	U
79-01-6	TRICHLOROETHENE	6.	U
124-48-1	DIBROMOCHLOROMETHANE	6.	U
79-00-5	1,1,2-TRICHLOROETHANE	6.	U
71-43-2	BENZENE	6.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	6.	U
75-25-2	BROMOFORM	6.	U
108-10-1	4-METHYL-2-PENTANONE	4.	BJ
591-78-6	2-HEXANONE	13.	U
127-18-4	TETRACHLOROETHENE	6.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6.	U
108-88-3	TOLUENE	6.	U
108-90-7	CHLOROBENZENE	6.	U
100-41-4	ETHYLBENZENE	6.	U
100-42-5	STYRENE	6.	U
1330-20-7	XYLENE (TOTAL)	6.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0032
EPA SAMPLE NO.

SB05

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 30780

Level: (low/med) MED

Date Received: 3/28/90

% Moisture: not dec. 14.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: ~~3333.34~~

333.34

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

Q 4/10/90

CAS NO.

COMPOUND

74-87-3-----	CHLOROMETHANE	480000.	U
74-83-9-----	BROMOMETHANE	480000.	U
75-01-4-----	VINYL CHLORIDE	480000.	U
75-00-3-----	CHLOROETHANE	480000.	U
75-09-2-----	METHYLENE CHLORIDE	240000.	U -
67-64-1-----	ACETONE	890000.	B -
75-15-0-----	CARBON DISULFIDE	240000.	U
75-35-4-----	1,1-DICHLOROETHENE	240000.	U -
75-34-3-----	1,1-DICHLOROETHANE	240000.	U
156-60-5-----	1,2-DICHLOROETHENE (TOTAL)	240000.	U -
67-66-3-----	CHLOROFORM	240000.	U
107-06-2-----	1,2-DICHLOROETHANE	240000.	U
78-93-3-----	2-BUTANONE	890000.	
71-55-6-----	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5-----	CARBON TETRACHLORIDE	240000.	U
108-05-4-----	VINYL ACETATE	480000.	U
75-27-4-----	BROMODICHLOROMETHANE	240000.	U
78-87-5-----	1,2-DICHLOROPROPANE	240000.	U
10061-01-5-----	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6-----	TRICHLOROETHENE	90000.	J
124-48-1-----	DIBROMOCHLOROMETHANE	240000.	U
79-00-5-----	1,1,2-TRICHLOROETHANE	240000.	U -
71-43-2-----	BENZENE	240000.	U
10061-02-6-----	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2-----	BROMOFORM	240000.	U
108-10-1-----	4-METHYL-2-PENTANONE	1400000.	
591-78-6-----	2-HEXANONE	480000.	U
127-18-4-----	TETRACHLOROETHENE	120000.	J
79-34-5-----	1,1,2,2-TETRACHLOROETHANE	240000.	U -
108-88-3-----	TOLUENE	9300000.	
108-90-7-----	CHLOROBENZENE	240000.	U
100-41-4-----	ETHYLBENZENE	220000.	J
100-42-5-----	STYRENE	240000.	U
1330-20-7-----	XYLENE (TOTAL)	1300000.	

0016

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0033
EPA SAMPLE NO.

SB06

Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005405

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 30784

Level: (low/med) MED

Date Received: 3/28/90

% Moisture: not dec. 20.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: ~~50000.00~~

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

^{SP}
4/10/90
Q

74-87-3-----	CHLOROMETHANE	780000.	U
74-83-9-----	BROMOMETHANE	780000.	U
75-01-4-----	VINYL CHLORIDE	780000.	U
75-00-3-----	CHLOROETHANE	780000.	U
75-09-2-----	METHYLENE CHLORIDE	390000.	U
67-64-1-----	ACETONE	1300000.	B
75-15-0-----	CARBON DISULFIDE	390000.	U
75-35-4-----	1,1-DICHLOROETHENE	390000.	U
75-34-3-----	1,1-DICHLOROETHANE	390000.	U
156-60-5-----	1,2-DICHLOROETHENE (TOTAL)	390000.	U
67-66-3-----	CHLOROFORM	390000.	U
107-06-2-----	1,2-DICHLOROETHANE	390000.	U
78-93-3-----	2-BUTANONE	780000.	U
71-55-6-----	1,1,1-TRICHLOROETHANE	390000.	U
56-23-5-----	CARBON TETRACHLORIDE	390000.	U
108-05-4-----	VINYL ACETATE	780000.	U
75-27-4-----	BROMODICHLOROMETHANE	390000.	U
78-87-5-----	1,2-DICHLOROPROPANE	390000.	U
10061-01-5-----	CIS-1,3-DICHLOROPROPENE	390000.	U
79-01-6-----	TRICHLOROETHENE	390000.	U
124-48-1-----	DIBROMOCHLOROMETHANE	390000.	U
79-00-5-----	1,1,2-TRICHLOROETHANE	390000.	U
71-43-2-----	BENZENE	390000.	U
10061-02-6-----	TRANS-1,3-DICHLOROPROPENE	390000.	U
75-25-2-----	BROMOFORM	390000.	U
108-10-1-----	4-METHYL-2-PENTANONE	780000.	U
591-78-6-----	2-HEXANONE	780000.	U
127-18-4-----	TETRACHLOROETHENE	720000.	
79-34-5-----	1,1,2,2-TETRACHLOROETHANE	390000.	U
108-88-3-----	TOLUENE	11000000.	
108-90-7-----	CHLOROBENZENE	390000.	U
100-41-4-----	ETHYLBENZENE	170000.	J
100-42-5-----	STYRENE	390000.	U
1330-20-7-----	XYLENE (TOTAL)	1500000.	

0017

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0084
EPA SAMPLE NO.

SD01

Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005406

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 21152

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 23.

Date Analyzed: 3/31/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	13.	U
74-83-9	BROMOMETHANE	13.	U
75-01-4	VINYL CHLORIDE	13.	U
75-00-3	CHLOROETHANE	13.	U
75-09-2	METHYLENE CHLORIDE	9.	B
67-64-1	ACETONE	42.	B
75-15-0	CARBON DISULFIDE	7.	U
75-35-4	1,1-DICHLOROETHENE	7.	U
75-34-3	1,1-DICHLOROETHANE	2.	J
156-60-5	1,2-DICHLOROETHENE (TOTAL)	7.	U
67-66-3	CHLOROFORM	7.	U
107-06-2	1,2-DICHLOROETHANE	7.	U
78-93-3	2-BUTANONE	32.	B
71-55-6	1,1,1-TRICHLOROETHANE	7.	U
56-23-5	CARBON TETRACHLORIDE	7.	U
108-05-4	VINYL ACETATE	13.	U
75-27-4	BROMODICHLOROMETHANE	7.	U
78-87-5	1,2-DICHLOROPROPANE	7.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	7.	U
79-01-6	TRICHLOROETHENE	7.	U
124-48-1	DIBROMOCHLOROMETHANE	7.	U
79-00-5	1,1,2-TRICHLOROETHANE	7.	U
71-43-2	BENZENE	7.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	7.	U
75-25-2	BROMOFORM	7.	U
108-10-1	4-METHYL-2-PENTANONE	13.	U
591-78-6	2-HEXANONE	13.	U
127-18-4	TETRACHLOROETHENE	7.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	4.	J
108-88-3	TOLUENE	7.	U
108-90-7	CHLOROBENZENE	7.	U
100-41-4	ETHYLBENZENE	4.	J
100-42-5	STYRENE	7.	U
1330-20-7	XYLENE (TOTAL)	15.	

0018

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0035

EPA SAMPLE NO.

SW01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: 005403

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 21160

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	3.	BJ
67-64-1	ACETONE	2.	BJ
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	5.	BJ
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.	J
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0019

1 9 0036

EPA SAMPLE NO.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

VELKOA

Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: VELKOA

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: 21157

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/L

Q

74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	2.	J
67-64-1	ACETONE	7.	J
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	6.	J
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	10.	U
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

1 9 0037
EPA SAMPLE NO.

VELKOB

Name: ECOTEK Contract:
Lab Code: ECOTEK Case No.: BASKET SAS No.: SDG No.: PW01
Matrix: (soil/water) SOIL Lab Sample ID: VBLKOB
Sample wt/vol: 5.0 (g/mL) G Lab File ID: 21147
Level: (low/med) LOW Date Received: 0/ 0/ 0
% Moisture: not dec. 0. Date Analyzed: 3/31/90
Column: (pack/cap) PACK Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	-----CHLOROMETHANE	10.	U
74-83-9	-----BROMOMETHANE	10.	U
75-01-4	-----VINYL CHLORIDE	10.	U
75-00-3	-----CHLOROETHANE	10.	U
75-09-2	-----METHYLENE CHLORIDE	6.	
67-64-1	-----ACETONE	45.	
75-15-0	-----CARBON DISULFIDE	5.	U
75-35-4	-----1,1-DICHLOROETHENE	5.	U
75-34-3	-----1,1-DICHLOROETHANE	5.	U
156-60-5	-----1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	-----CHLOROFORM	5.	U
107-06-2	-----1,2-DICHLOROETHANE	5.	U
78-93-3	-----2-BUTANONE	18.	
71-55-6	-----1,1,1-TRICHLOROETHANE	5.	U
56-23-5	-----CARBON TETRACHLORIDE	5.	U
108-05-4	-----VINYL ACETATE	10.	U
75-27-4	-----BROMODICHLOROMETHANE	5.	U
78-87-5	-----1,2-DICHLOROPROPANE	5.	U
10061-01-5	-----CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	-----TRICHLOROETHENE	5.	U
124-48-1	-----DIBROMOCHLOROMETHANE	5.	U
79-00-5	-----1,1,2-TRICHLOROETHANE	5.	U
71-43-2	-----BENZENE	5.	U
10061-02-6	-----TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	-----BROMOFORM	5.	U
108-10-1	-----4-METHYL-2-PENTANONE	10.	U
591-78-6	-----2-HEXANONE	10.	U
127-18-4	-----TETRACHLOROETHENE	5.	U
79-34-5	-----1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	-----TOLUENE	5.	U
108-90-7	-----CHLOROBENZENE	5.	U
100-41-4	-----ETHYLBENZENE	5.	U
100-42-5	-----STYRENE	5.	U
1330-20-7	-----XYLENE (TOTAL)	5.	U

0021

1A 1 9 0038
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VELKOM

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID:

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 30778

Level: (low/med) MED

Date Received: 0/ 0/ 0

% Moisture: not dec. 0.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor:

1.00
0.008
SP 4/10/90
Q

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

74-87-3-----	CHLOROMETHANE	10.	U
74-83-9-----	BROMOMETHANE	10.	U
75-01-4-----	VINYL CHLORIDE	10.	U
75-00-3-----	CHLOROETHANE	10.	U
75-09-2-----	METHYLENE CHLORIDE	2.	J
67-64-1-----	ACETONE	14.	
75-15-0-----	CARBON DISULFIDE	5.	U
75-35-4-----	1,1-DICHLOROETHENE	5.	U
75-34-3-----	1,1-DICHLOROETHANE	5.	U
156-60-5-----	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3-----	CHLOROFORM	5.	U
107-06-2-----	1,2-DICHLOROETHANE	5.	U
78-93-3-----	2-BUTANONE	10.	U
71-55-6-----	1,1,1-TRICHLOROETHANE	5.	U
56-23-5-----	CARBON TETRACHLORIDE	5.	U
108-05-4-----	VINYL ACETATE	10.	U
75-27-4-----	BROMODICHLOROMETHANE	5.	U
78-87-5-----	1,2-DICHLOROPROPANE	5.	U
10061-01-5-----	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6-----	TRICHLOROETHENE	5.	U
124-48-1-----	DIBROMOCHLOROMETHANE	5.	U
79-00-5-----	1,1,2-TRICHLOROETHANE	5.	U
71-43-2-----	BENZENE	5.	U
10061-02-6-----	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2-----	BROMOFORM	5.	U
108-10-1-----	4-METHYL-2-PENTANONE	10.	U
591-78-6-----	2-HEXANONE	10.	U
127-18-4-----	TETRACHLOROETHENE	5.	U
79-34-5-----	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3-----	TOLUENE	5.	U
108-90-7-----	CHLOROBENZENE	5.	U
100-41-4-----	ETHYLBENZENE	5.	U
100-42-5-----	STYRENE	5.	U
1330-20-7-----	XYLENE (TOTAL)	5.	U

1A 1 9 0089

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKOD

Name: ECOTEK

Contract: RFW

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: SBO1

Matrix: (soil/water) SOIL

Lab Sample ID: VBLKOD

Sample wt/vol: 5.0 (g/mL) G

Lab File ID: 21133

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 0.

Date Analyzed: 3/29/90

Column: (pack/cap) PACK

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	CHLOROMETHANE	10.	U
74-83-9	BROMOMETHANE	10.	U
75-01-4	VINYL CHLORIDE	10.	U
75-00-3	CHLOROETHANE	10.	U
75-09-2	METHYLENE CHLORIDE	6.	
67-64-1	ACETONE	9.	J
75-15-0	CARBON DISULFIDE	5.	U
75-35-4	1,1-DICHLOROETHENE	5.	U
75-34-3	1,1-DICHLOROETHANE	5.	U
156-60-5	1,2-DICHLOROETHENE (TOTAL)	5.	U
67-66-3	CHLOROFORM	5.	U
107-06-2	1,2-DICHLOROETHANE	5.	U
78-93-3	2-BUTANONE	8.	J
71-55-6	1,1,1-TRICHLOROETHANE	5.	U
56-23-5	CARBON TETRACHLORIDE	5.	U
108-05-4	VINYL ACETATE	10.	U
75-27-4	BROMODICHLOROMETHANE	5.	U
78-87-5	1,2-DICHLOROPROPANE	5.	U
10061-01-5	CIS-1,3-DICHLOROPROPENE	5.	U
79-01-6	TRICHLOROETHENE	5.	U
124-48-1	DIBROMOCHLOROMETHANE	5.	U
79-00-5	1,1,2-TRICHLOROETHANE	5.	U
71-43-2	BENZENE	5.	U
10061-02-6	TRANS-1,3-DICHLOROPROPENE	5.	U
75-25-2	BROMOFORM	5.	U
108-10-1	4-METHYL-2-PENTANONE	3.	J
591-78-6	2-HEXANONE	10.	U
127-18-4	TETRACHLOROETHENE	5.	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.	U
108-88-3	TOLUENE	5.	U
108-90-7	CHLOROBENZENE	5.	U
100-41-4	ETHYLBENZENE	5.	U
100-42-5	STYRENE	5.	U
1330-20-7	XYLENE (TOTAL)	5.	U

0023

1 9 0090

1A

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ECOTEK

Contract:

SB05 MS

Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MS

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 30781

Level: (low/med) MED

Date Received: 3/28/90

% Moisture: not dec. 14.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: ~~3333.34~~333.34
sp 4/10/90

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

74-87-3-----	CHLOROMETHANE	480000.	U
74-83-9-----	BROMOMETHANE	480000.	U
75-01-4-----	VINYL CHLORIDE	480000.	U
75-00-3-----	CHLOROETHANE	480000.	U
75-09-2-----	METHYLENE CHLORIDE	240000.	U
67-64-1-----	ACETONE	460000.	BJ
75-15-0-----	CARBON DISULFIDE	240000.	U
75-35-4-----	1,1-DICHLOROETHENE	3200000.	
75-34-3-----	1,1-DICHLOROETHANE	240000.	U
156-60-5-----	1,2-DICHLOROETHENE (TOTAL)	240000.	U
67-66-3-----	CHLOROFORM	240000.	U
107-06-2-----	1,2-DICHLOROETHANE	240000.	U
78-93-3-----	2-BUTANONE	1100000.	
71-55-6-----	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5-----	CARBON TETRACHLORIDE	240000.	U
108-05-4-----	VINYL ACETATE	480000.	U
75-27-4-----	BROMODICHLOROMETHANE	240000.	U
78-87-5-----	1,2-DICHLOROPROPANE	240000.	U
10061-01-5-----	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6-----	TRICHLOROETHENE	2200000.	
124-48-1-----	DIBROMOCHLOROMETHANE	240000.	U
79-00-5-----	1,1,2-TRICHLOROETHANE	240000.	U
71-43-2-----	BENZENE	1900000.	
10061-02-6-----	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2-----	BROMOFORM	240000.	U
108-10-1-----	4-METHYL-2-PENTANONE	1300000.	
591-78-6-----	2-HEXANONE	480000.	U
127-18-4-----	TETRACHLOROETHENE	110000.	J
79-34-5-----	1,1,2,2-TETRACHLOROETHANE	240000.	U
108-88-3-----	TOLUENE	10000000.	E
108-90-7-----	CHLOROBENZENE	2000000.	
100-41-4-----	ETHYLBENZENE	200000.	J
100-42-5-----	STYRENE	240000.	U
1330-20-7-----	XYLENE (TOTAL)	1100000.	

1A 1 9 0091
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SB05 MSD

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MD

Sample wt/vol: 4.0 (g/mL) G

Lab File ID: 30782

Level: (low/med) MED

Date Received: 3/28/90

% Moisture: not dec. 14.

Date Analyzed: 4/ 2/90

Column: (pack/cap) PACK

Dilution Factor: ~~3333.34~~

333.34
Sp 4/10/90

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

74-87-3-----	CHLOROMETHANE	480000.	U
74-83-9-----	BROMOMETHANE	480000.	U
75-01-4-----	VINYL CHLORIDE	480000.	U
75-00-3-----	CHLOROETHANE	480000.	U
75-09-2-----	METHYLENE CHLORIDE	240000.	U
67-64-1-----	ACETONE	500000.	B
75-15-0-----	CARBON DISULFIDE	240000.	U
75-35-4-----	1,1-DICHLOROETHENE	3200000.	
75-34-3-----	1,1-DICHLOROETHANE	240000.	U
156-60-5-----	1,2-DICHLOROETHENE (TOTAL)	240000.	U
67-66-3-----	CHLOROFORM	240000.	U
107-06-2-----	1,2-DICHLOROETHANE	240000.	U
78-93-3-----	2-BUTANONE	1200000.	
71-55-6-----	1,1,1-TRICHLOROETHANE	240000.	U
56-23-5-----	CARBON TETRACHLORIDE	240000.	U
108-05-4-----	VINYL ACETATE	480000.	U
75-27-4-----	BROMODICHLOROMETHANE	240000.	U
78-87-5-----	1,2-DICHLOROPROPANE	240000.	U
10061-01-5-----	CIS-1,3-DICHLOROPROPENE	240000.	U
79-01-6-----	TRICHLOROETHENE	2200000.	
124-48-1-----	DIBROMOCHLOROMETHANE	240000.	U
79-00-5-----	1,1,2-TRICHLOROETHANE	240000.	U
71-43-2-----	BENZENE	2000000.	
10061-02-6-----	TRANS-1,3-DICHLOROPROPENE	240000.	U
75-25-2-----	BROMOFORM	240000.	U
108-10-1-----	4-METHYL-2-PENTANONE	1500000.	
591-78-6-----	2-HEXANONE	480000.	U
127-18-4-----	TETRACHLOROETHENE	110000.	J
79-34-5-----	1,1,2,2-TETRACHLOROETHANE	240000.	U
108-88-3-----	TOLUENE	11000000.	E
108-90-7-----	CHLOROBENZENE	2100000.	
100-41-4-----	ETHYLBENZENE	210000.	J
100-42-5-----	STYRENE	240000.	U
1330-20-7-----	XYLENE (TOTAL)	1300000.	

0025

2A
WATER VOLATILE SURROGATE RECOVERY

1 9 0092

Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Inst. ID. 10501 ^u/₄₉₉₀

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBKOA	97	96	93		0
2	PW01	98	100	101		0
3	PW02	91	91	93		0
4	SW01	98	97	98		0
5						
6						
7						
8						
9						
10						
11						
12						
13						
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16						
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18						
19						
20						
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22						
23						
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25						
26						
27						
28						
29						
30						

QC LIMITS
S1 (TOL) = TOLUENE-D8 (88-110)
S2 (BFB) = BROMOFLUOROBENZENE (86-115)
S3 (DCE) = 1,2-DICHLOROETHANE-D4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

1 9 0093

Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Level:(low/med) LOW

Inst. ID. 10501

u
4990

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VELKOB	109	106	117		0
2	SD01	107	98	118		0
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
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27						
28						
29						
30						

QC LIMITS

S1 (TOL) = TOLUENE-D8 (81-117)
 S2 (BFB) = BROMOFLUOROBENZENE (74-121)
 S3 (DCE) = 1,2-DICHLOROETHANE-D4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

1 9 0094

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: POW01

Level:(low/med) MED

Inst. ID. 4000 ^u
4-9-80

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKOM	103	99	97		0
2	SB05	102	101	99		0
3	SB05 MS	89	85	99		0
4	SB05 MSD	93	91	100		0
5	SB06	95	97	106		0
6						
7						
8						
9						
10						
11						
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13						
14						
15						
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18						
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27						
28						
29						
30						

QC LIMITS

S1 (TOL) = TOLUENE-D8 (81-117)
 S2 (BFB) = BROMOFLUOROBENZENE (74-121)
 S3 (DCE) = 1,2-DICHLOROETHANE-D4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

2B
SOIL VOLATILE SURROGATE RECOVERY

1 9 0095

Lab Name: ECOTEK

Contract: RFW

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: SB01

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
1	VBLKOD	104	90	98		0
2	SB01	109	80	93		0
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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14						
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16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

S1 (TOL) = TOLUENE-D8 (81-117)
 S2 (BFB) = BROMOFLUOROBENZENE (74-121)
 S3 (DCE) = 1,2-DICHLOROETHANE-D4 (70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

1 9 0096

Lab Name: ECOTEK

Contract:

Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.: PW01

Matrix Spike - EPA Sample No.: SB05

Level: (low/med) MED

Inst. ID. 4000 ^u/₄₋₉₋₉₀

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
1,1-DICHLOROETHENE	2416858.	0.	3239857.	134.	59-172
TRICHLOROETHENE	2416858.	90468.	2221389.	88.	62-137
BENZENE	2416858.	0.	1938254.	80.	66-142
TOLUENE	2416858.	9291839.	10274360.	41. *	59-139
CHLOROBENZENE	2416858.	0.	2015564.	83.	60-133

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-DICHLOROETHENE	2416858.	3162084.	131.	2.	22 59-172
TRICHLOROETHENE	2416858.	2229184.	88.	0.	24 62-137
BENZENE	2416858.	1979372.	82.	2.	21 66-142
TOLUENE	2416858.	11041590.	72.	56. *	21 59-139
CHLOROBENZENE	2416858.	2106018.	87.	4.	21 60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

COMMENTS:

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1 9

0097

EPA SAMPLE NO.

PW01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005401

Sample wt/vol: 932.0 (g/mL) ML

Lab File ID: 41347

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	11.	U
111-44-4	bis(2-Chloroethyl)ether	11.	U
95-57-8	2-Chlorophenol	11.	U
541-73-1	1,3-Dichlorobenzene	11.	U
106-46-7	1,4-Dichlorobenzene	11.	U
100-51-6	Benzyl alcohol	11.	U
95-50-1	1,2-Dichlorobenzene	11.	U
95-48-7	2-Methylphenol	11.	U
108-60-1	bis(2-Chloroisopropyl)ether	11.	U
106-44-5	4-Methylphenol	11.	U
621-64-7	N-Nitroso-di-n-propylamine	11.	U
67-72-1	Hexachloroethane	11.	U
98-95-3	Nitrobenzene	11.	U
78-59-1	Isophorone	11.	U
88-75-5	2-Nitrophenol	11.	U
105-67-9	2,4-Dimethylphenol	11.	U
65-85-0	Benzoic acid	54.	U
111-91-1	bis(2-Chloroethoxy)methane	11.	U
120-83-2	2,4-Dichlorophenol	11.	U
120-82-1	1,2,4-Trichlorobenzene	11.	U
91-20-3	Naphthalene	11.	U
106-47-8	4-Chloroaniline	11.	U
87-68-3	Hexachlorobutadiene	11.	U
59-50-7	4-Chloro-3-methylphenol	11.	U
91-57-6	2-Methylnaphthalene	11.	U
77-47-4	Hexachlorocyclopentadiene	11.	U
88-06-2	2,4,6-Trichlorophenol	11.	U
95-95-4	2,4,5-Trichlorophenol	54.	U
91-58-7	2-Chloronaphthalene	11.	U
88-74-4	2-Nitroaniline	54.	U
131-11-3	Dimethylphthalate	11.	U
208-96-8	Acenaphthylene	11.	U
606-20-2	2,6-Dinitrotoluene	11.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0098

PW01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005401

Sample wt/vol: 932.0 (g/mL) ML

Lab File ID: 41347

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	54.	U
83-32-9	Acenaphthene	11.	U
51-28-5	2,4-Dinitrophenol	54.	U
100-02-7	4-Nitrophenol	54.	U
132-64-9	Dibenzofuran	11.	U
121-14-2	2,4-Dinitrotoluene	11.	U
84-66-2	Diethylphthalate	11.	U
7005-72-3	4-Chlorophenyl-phenylether	11.	U
86-73-7	Fluorene	11.	U
100-01-6	4-Nitroaniline	54.	U
534-52-1	4,6-Dinitro-2-methylphenol	54.	U
86-30-6	N-Nitrosodiphenylamine	11.	U
101-55-3	4-Bromophenyl-phenylether	11.	U
118-74-1	Hexachlorobenzene	11.	U
87-86-5	Pentachlorophenol	54.	U
85-01-8	Phenanthrene	11.	U
120-12-7	Anthracene	11.	U
84-74-2	Di-n-butylphthalate	11.	U
206-44-0	Fluoranthene	11.	U
129-00-0	Pyrene	11.	U
85-68-7	Butylbenzylphthalate	11.	U
91-94-1	3,3'-Dichlorobenzidine	21.	U
56-55-3	Benzo(a)anthracene	11.	U
218-01-9	Chrysene	11.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ
117-84-0	Di-n-octylphthalate	11.	U
205-99-2	Benzo(b)fluoranthene	11.	U
207-08-9	Benzo(k)fluoranthene	11.	U
50-32-8	Benzo(a)pyrene	11.	U
193-39-5	Indeno(1,2,3-cd)pyrene	11.	U
53-70-3	Dibenz(a,h)anthracene	11.	U
191-24-2	Benzo(g,h,i)perylene	11.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0099

PW02

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005402

Sample wt/vol: 982.0 (g/mL) ML

Lab File ID: 41348

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/L
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	51.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	51.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	51.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

10
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0100

PW02

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005402

Sample wt/vol: 982.0 (g/mL) ML

Lab File ID: 41348

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
99-09-2	3-Nitroaniline	51.	U	
83-32-9	Acenaphthene	10.	U	
51-28-5	2,4-Dinitrophenol	51.	U	
100-02-7	4-Nitrophenol	51.	U	
132-64-9	Dibenzofuran	10.	U	
121-14-2	2,4-Dinitrotoluene	10.	U	
84-66-2	Diethylphthalate	10.	U	
7005-72-3	4-Chlorophenyl-phenylether	10.	U	
86-73-7	Fluorene	10.	U	
100-01-6	4-Nitroaniline	51.	U	
534-52-1	4,6-Dinitro-2-methylphenol	51.	U	
86-30-6	N-Nitrosodiphenylamine	10.	U	
101-55-3	4-Bromophenyl-phenylether	10.	U	
118-74-1	Hexachlorobenzene	10.	U	
87-86-5	Pentachlorophenol	51.	U	
85-01-8	Phenanthrene	10.	U	
120-12-7	Anthracene	10.	U	
84-74-2	Di-n-butylphthalate	10.	U	
206-44-0	Fluoranthene	10.	U	
129-00-0	Pyrene	10.	U	
85-68-7	Butylbenzylphthalate	10.	U	
91-94-1	3,3'-Dichlorobenzidine	20.	U	
56-55-3	Benzo(a)anthracene	10.	U	
218-01-9	Chrysene	10.	U	
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ	
117-84-0	Di-n-octylphthalate	10.	U	
205-99-2	Benzo(b)fluoranthene	10.	U	
207-08-9	Benzo(k)fluoranthene	10.	U	
50-32-8	Benzo(a)pyrene	10.	U	
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U	
53-70-3	Dibenz(a,h)anthracene	10.	U	
191-24-2	Benzo(g,h,i)perylene	10.	U	

(1) - Cannot be separated from diphenylamine

0034

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0101

SB01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005601

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41352

Level: (low/med) LOW

Date Received: 3/29/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U
95-57-8	2-Chlorophenol	430.	U
541-73-1	1,3-Dichlorobenzene	430.	U
106-46-7	1,4-Dichlorobenzene	430.	U
100-51-6	Benzyl alcohol	430.	U
95-50-1	1,2-Dichlorobenzene	430.	U
95-48-7	2-Methylphenol	430.	U
108-60-1	bis(2-Chloroisopropyl)ether	430.	U
106-44-5	4-Methylphenol	430.	U
621-64-7	N-Nitroso-di-n-propylamine	430.	U
67-72-1	Hexachloroethane	430.	U
98-95-3	Nitrobenzene	430.	U
78-59-1	Isophorone	430.	U
88-75-5	2-Nitrophenol	430.	U
105-67-9	2,4-Dimethylphenol	430.	U
65-85-0	Benzoic acid	2100.	U
111-91-1	bis(2-Chloroethoxy)methane	430.	U
120-83-2	2,4-Dichlorophenol	430.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U
91-20-3	Naphthalene	430.	U
106-47-8	4-Chloroaniline	430.	U
87-68-3	Hexachlorobutadiene	430.	U
59-50-7	4-Chloro-3-methylphenol	430.	U
91-57-6	2-Methylnaphthalene	430.	U
77-47-4	Hexachlorocyclopentadiene	430.	U
88-06-2	2,4,6-Trichlorophenol	430.	U
95-95-4	2,4,5-Trichlorophenol	2100.	U
91-58-7	2-Chloronaphthalene	430.	U
88-74-4	2-Nitroaniline	2100.	U
131-11-3	Dimethylphthalate	430.	U
208-96-8	Acenaphthylene	430.	U
606-20-2	2,6-Dinitrotoluene	430.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0102

SB01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

atrix: (soil/water) SOIL

Lab Sample ID: 005601

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41352

Level: (low/med) LOW

Date Received: 3/29/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.05

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2100.	U
83-32-9	Acenaphthene	430.	U
51-28-5	2,4-Dinitrophenol	2100.	U
100-02-7	4-Nitrophenol	2100.	U
132-64-9	Dibenzofuran	430.	U
121-14-2	2,4-Dinitrotoluene	430.	U
84-66-2	Diethylphthalate	430.	U
7005-72-3	4-Chlorophenyl-phenylether	430.	U
86-73-7	Fluorene	430.	U
100-01-6	4-Nitroaniline	2100.	U
534-52-1	4,6-Dinitro-2-methylphenol	2100.	U
86-30-6	N-Nitrosodiphenylamine	430.	U
101-55-3	4-Bromophenyl-phenylether	430.	U
118-74-1	Hexachlorobenzene	430.	U
87-86-5	Pentachlorophenol	2100.	U
85-01-8	Phenanthrene	430.	U
120-12-7	Anthracene	430.	U
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	430.	U
129-00-0	Pyrene	430.	U
85-68-7	Butylbenzylphthalate	430.	U
91-94-1	3,3'-Dichlorobenzidine	870.	U
56-55-3	Benzo(a)anthracene	430.	U
218-01-9	Chrysene	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate	480.	B
117-84-0	Di-n-octylphthalate	430.	U
205-99-2	Benzo(b)fluoranthene	430.	U
207-08-9	Benzo(k)fluoranthene	430.	U
50-32-8	Benzo(a)pyrene	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U
53-70-3	Dibenz(a,h)anthracene	430.	U
191-24-2	Benzo(g,h,i)perylene	430.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0103

SB05

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 41384

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
108-95-2	Phenol	4300.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	1000.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	10000.	U
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	10000.	U
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	1900.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	10000.	U
91-20-3	Naphthalene	4200.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	10000.	U
91-57-6	2-Methylnaphthalene	1800.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	10000.	U
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ECOTEK

1 9 0104
Contract:

SBC5

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 41384

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	49000.	U
83-32-9	Acenaphthene	10000.	U
51-28-5	2,4-Dinitrophenol	49000.	U
100-02-7	4-Nitrophenol	49000.	U
132-64-9	Dibenzofuran	10000.	U
121-14-2	2,4-Dinitrotoluene	10000.	U
84-66-2	Diethylphthalate	10000.	U
7005-72-3	4-Chlorophenyl-phenylether	10000.	U
86-73-7	Fluorene	10000.	U
100-01-6	4-Nitroaniline	49000.	U
534-52-1	4,6-Dinitro-2-methylphenol	49000.	U
86-30-6	N-Nitrosodiphenylamine	10000.	U
101-55-3	4-Bromophenyl-phenylether	10000.	U
118-74-1	Hexachlorobenzene	10000.	U
87-86-5	Pentachlorophenol	49000.	U
85-01-8	Phenanthrene	10000.	U
120-12-7	Anthracene	10000.	U
84-74-2	Di-n-butylphthalate	21000.	
206-44-0	Fluoranthene	10000.	U
129-00-0	Pyrene	10000.	U
85-68-7	Butylbenzylphthalate	36000.	B
91-94-1	3,3'-Dichlorobenzidine	20000.	U
56-55-3	Benzo(a)anthracene	10000.	U
218-01-9	Chrysene	10000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	95000.	B
117-84-0	Di-n-octylphthalate	10000.	U
205-99-2	Benzo(b)fluoranthene	10000.	U
207-08-9	Benzo(k)fluoranthene	10000.	U
50-32-8	Benzo(a)pyrene	10000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000.	U
53-70-3	Dibenz(a,h)anthracene	10000.	U
191-24-2	Benzo(g,h,i)perylene	10000.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0105

SB06

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005405

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41387

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	Q
108-95-2	Phenol	11000. U
111-44-4	bis(2-Chloroethyl)ether	11000. U
95-57-8	2-Chlorophenol	11000. U
541-73-1	1,3-Dichlorobenzene	11000. U
106-46-7	1,4-Dichlorobenzene	11000. U
100-51-6	Benzyl alcohol	11000. U
95-50-1	1,2-Dichlorobenzene	11000. U
95-48-7	2-Methylphenol	11000. U
108-60-1	bis(2-Chloroisopropyl)ether	11000. U
106-44-5	4-Methylphenol	11000. U
621-64-7	N-Nitroso-di-n-propylamine	11000. U
67-72-1	Hexachloroethane	11000. U
98-95-3	Nitrobenzene	11000. U
78-59-1	Isophorone	11000. U
88-75-5	2-Nitrophenol	11000. U
105-67-9	2,4-Dimethylphenol	11000. U
65-85-0	Benzoic acid	53000. U
111-91-1	bis(2-Chloroethoxy)methane	11000. U
120-83-2	2,4-Dichlorophenol	11000. U
120-82-1	1,2,4-Trichlorobenzene	11000. U
91-20-3	Naphthalene	19000. U
106-47-8	4-Chloroaniline	11000. U
87-68-3	Hexachlorobutadiene	11000. U
59-50-7	4-Chloro-3-methylphenol	11000. U
91-57-6	2-Methylnaphthalene	8000. J
77-47-4	Hexachlorocyclopentadiene	11000. U
88-06-2	2,4,6-Trichlorophenol	11000. U
95-95-4	2,4,5-Trichlorophenol	53000. U
91-58-7	2-Chloronaphthalene	11000. U
88-74-4	2-Nitroaniline	53000. U
131-11-3	Dimethylphthalate	11000. U
208-96-8	Acenaphthylene	11000. U
606-20-2	2,6-Dinitrotoluene	11000. U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0106

SE06

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005405

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41387

Level: (low/med) LOW

Date Received: 3/29/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	53000.	U
83-32-9	Acenaphthene	11000.	U
51-28-5	2,4-Dinitrophenol	53000.	U
100-02-7	4-Nitrophenol	53000.	U
132-64-9	Dibenzofuran	11000.	U
121-14-2	2,4-Dinitrotoluene	11000.	U
84-66-2	Diethylphthalate	11000.	U
7005-72-3	4-Chlorophenyl-phenylether	11000.	U
86-73-7	Fluorene	11000.	U
100-01-6	4-Nitroaniline	53000.	U
534-52-1	4,6-Dinitro-2-methylphenol	53000.	U
86-30-6	N-Nitrosodiphenylamine	11000.	U
101-55-3	4-Bromophenyl-phenylether	11000.	U
118-74-1	Hexachlorobenzene	11000.	U
87-86-5	Pentachlorophenol	53000.	U
85-01-8	Phenanthrene	11000.	U
120-12-7	Anthracene	11000.	U
84-74-2	Di-n-butylphthalate	5900.	J
206-44-0	Fluoranthene	11000.	U
129-00-0	Pyrene	11000.	U
85-68-7	Butylbenzylphthalate	41000.	B
91-94-1	3,3'-Dichlorobenzidine	22000.	U
56-55-3	Benzo(a)anthracene	11000.	U
218-01-9	Chrysene	11000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	220000.	B E
117-84-0	Di-n-octylphthalate	11000.	U
205-99-2	Benzo(b)fluoranthene	11000.	U
207-08-9	Benzo(k)fluoranthene	11000.	U
50-32-8	Benzo(a)pyrene	11000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	11000.	U
53-70-3	Dibenz(a,h)anthracene	11000.	U
191-24-2	Benzo(g,h,i)perylene	11000.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0107

SD01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005406

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41351

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.05

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

108-95-2	Phenol	450.	U
111-44-4	bis(2-Chloroethyl)ether	450.	U
95-57-8	2-Chlorophenol	450.	U
541-73-1	1,3-Dichlorobenzene	450.	U
106-46-7	1,4-Dichlorobenzene	450.	U
100-51-6	Benzyl alcohol	450.	U
95-50-1	1,2-Dichlorobenzene	450.	U
95-48-7	2-Methylphenol	450.	U
108-60-1	bis(2-Chloroisopropyl)ether	450.	U
106-44-5	4-Methylphenol	450.	U
621-64-7	N-Nitroso-di-n-propylamine	450.	U
67-72-1	Hexachloroethane	450.	U
98-95-3	Nitrobenzene	450.	U
78-59-1	Isophorone	450.	U
88-75-5	2-Nitrophenol	450.	U
105-67-9	2,4-Dimethylphenol	450.	U
65-85-0	Benzoic acid	2200.	U
111-91-1	bis(2-Chloroethoxy)methane	450.	U
120-83-2	2,4-Dichlorophenol	450.	U
120-82-1	1,2,4-Trichlorobenzene	450.	U
91-20-3	Naphthalene	450.	U
106-47-8	4-Chloroaniline	450.	U
87-68-3	Hexachlorobutadiene	450.	U
59-50-7	4-Chloro-3-methylphenol	450.	U
91-57-6	2-Methylnaphthalene	450.	U
77-47-4	Hexachlorocyclopentadiene	450.	U
88-06-2	2,4,6-Trichlorophenol	450.	U
95-95-4	2,4,5-Trichlorophenol	2200.	U
91-58-7	2-Chloronaphthalene	450.	U
88-74-4	2-Nitroaniline	2200.	U
131-11-3	Dimethylphthalate	450.	U
208-96-8	Acenaphthylene	450.	U
606-20-2	2,6-Dinitrotoluene	450.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0108

SD01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005406

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41351

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.05

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2200.	U
83-32-9	Acenaphthene	450.	U
51-28-5	2,4-Dinitrophenol	2200.	U
100-02-7	4-Nitrophenol	2200.	U
132-64-9	Dibenzofuran	450.	U
121-14-2	2,4-Dinitrotoluene	450.	U
84-66-2	Diethylphthalate	450.	U
7005-72-3	4-Chlorophenyl-phenylether	450.	U
86-73-7	Fluorene	450.	U
100-01-6	4-Nitroaniline	2200.	U
534-52-1	4,6-Dinitro-2-methylphenol	2200.	U
86-30-6	N-Nitrosodiphenylamine	450.	U
101-55-3	4-Bromophenyl-phenylether	450.	U
118-74-1	Hexachlorobenzene	450.	U
87-86-5	Pentachlorophenol	2200.	U
85-01-8	Phenanthrene	450.	U
120-12-7	Anthracene	450.	U
84-74-2	Di-n-butylphthalate	450.	U
206-44-0	Fluoranthene	450.	U
129-00-0	Pyrene	450.	U
85-68-7	Butylbenzylphthalate	450.	U
91-94-1	3,3'-Dichlorobenzidine	900.	U
56-55-3	Benzo(a)anthracene	450.	U
218-01-9	Chrysene	450.	U
117-81-7	bis(2-Ethylhexyl)phthalate	280.	BJ
117-84-0	Di-n-octylphthalate	450.	U
205-99-2	Benzo(b)fluoranthene	450.	U
207-08-9	Benzo(k)fluoranthene	450.	U
50-32-8	Benzo(a)pyrene	450.	U
193-39-5	Indeno(1,2,3-cd)pyrene	450.	U
53-70-3	Dibenz(a,h)anthracene	450.	U
191-24-2	Benzo(g,h,i)perylene	450.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0109

SW01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005403

Sample wt/vol: 1015.0 (g/mL) ML

Lab File ID: 41349

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	49.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	49.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	49.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

10
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0110

SW01

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: 005403

Sample wt/vol: 1015.0 (g/mL) ML

Lab File ID: 41349

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	49.	U
83-32-9	Acenaphthene	10.	U
51-28-5	2,4-Dinitrophenol	49.	U
100-02-7	4-Nitrophenol	49.	U
132-64-9	Dibenzofuran	10.	U
121-14-2	2,4-Dinitrotoluene	10.	U
84-66-2	Diethylphthalate	10.	U
7005-72-3	4-Chlorophenyl-phenylether	10.	U
86-73-7	Fluorene	10.	U
100-01-6	4-Nitroaniline	49.	U
534-52-1	4,6-Dinitro-2-methylphenol	49.	U
86-30-6	N-Nitrosodiphenylamine	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	49.	U
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
84-74-2	Di-n-butylphthalate	10.	U
206-44-0	Fluoranthene	10.	U
129-00-0	Pyrene	10.	U
85-68-7	Butylbenzylphthalate	10.	U
91-94-1	3,3'-Dichlorobenzidine	20.	U
56-55-3	Benzo(a)anthracene	10.	U
218-01-9	Chrysene	10.	U
117-81-7	bis(2-Ethylhexyl)phthalate	5.	BJ
117-84-0	Di-n-octylphthalate	10.	U
205-99-2	Benzo(b)fluoranthene	10.	U
207-08-9	Benzo(k)fluoranthene	10.	U
50-32-8	Benzo(a)pyrene	10.	U
193-39-5	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3	Dibenz(a,h)anthracene	10.	U
191-24-2	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0111

SBLKW

Lab Name: ECDTEK

Contract:

Lab Code: ECDTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: Q1032802

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 41346

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

108-95-2	Phenol	10.	U
111-44-4	bis(2-Chloroethyl)ether	10.	U
95-57-8	2-Chlorophenol	10.	U
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	10.	U
100-51-6	Benzyl alcohol	10.	U
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	10.	U
108-60-1	bis(2-Chloroisopropyl)ether	10.	U
106-44-5	4-Methylphenol	10.	U
621-64-7	N-Nitroso-di-n-propylamine	10.	U
67-72-1	Hexachloroethane	10.	U
98-95-3	Nitrobenzene	10.	U
78-59-1	Isophorone	10.	U
88-75-5	2-Nitrophenol	10.	U
105-67-9	2,4-Dimethylphenol	10.	U
65-85-0	Benzoic acid	50.	U
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	U
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	10.	U
106-47-8	4-Chloroaniline	10.	U
87-68-3	Hexachlorobutadiene	10.	U
59-50-7	4-Chloro-3-methylphenol	10.	U
91-57-6	2-Methylnaphthalene	10.	U
77-47-4	Hexachlorocyclopentadiene	10.	U
88-06-2	2,4,6-Trichlorophenol	10.	U
95-95-4	2,4,5-Trichlorophenol	50.	U
91-58-7	2-Chloronaphthalene	10.	U
88-74-4	2-Nitroaniline	50.	U
131-11-3	Dimethylphthalate	10.	U
208-96-8	Acenaphthylene	10.	U
606-20-2	2,6-Dinitrotoluene	10.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0112

SBLKW

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: Q1032802

Sample wt/vol: 1000.0 (g/mL) ML

Lab File ID: 41346

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
99-09-2-----	3-Nitroaniline	50.	U
83-32-9-----	Acenaphthene	10.	U
51-28-5-----	2,4-Dinitrophenol	50.	U
100-02-7-----	4-Nitrophenol	50.	U
132-64-9-----	Dibenzofuran	10.	U
121-14-2-----	2,4-Dinitrotoluene	10.	U
84-66-2-----	Diethylphthalate	10.	U
7005-72-3-----	4-Chlorophenyl-phenylether	10.	U
86-73-7-----	Fluorene	10.	U
100-01-6-----	4-Nitroaniline	50.	U
534-52-1-----	4,6-Dinitro-2-methylphenol	50.	U
86-30-6-----	N-Nitrosodiphenylamine	10.	U
101-55-3-----	4-Bromophenyl-phenylether	10.	U
118-74-1-----	Hexachlorobenzene	10.	U
87-86-5-----	Pentachlorophenol	50.	U
85-01-8-----	Phenanthrene	10.	U
120-12-7-----	Anthracene	10.	U
84-74-2-----	Di-n-butylphthalate	10.	U
206-44-0-----	Fluoranthene	10.	U
129-00-0-----	Pyrene	10.	U
85-68-7-----	Butylbenzylphthalate	10.	U
91-94-1-----	3,3'-Dichlorobenzidine	20.	U
56-55-3-----	Benzo(a)anthracene	10.	U
218-01-9-----	Chrysene	10.	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	4.	J
117-84-0-----	Di-n-octylphthalate	10.	U
205-99-2-----	Benzo(b)fluoranthene	10.	U
207-08-9-----	Benzo(k)fluoranthene	10.	U
50-32-8-----	Benzo(a)pyrene	10.	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10.	U
53-70-3-----	Dibenz(a,h)anthracene	10.	U
191-24-2-----	Benzo(g,h,i)perylene	10.	U

(1) - Cannot be separated from diphenylamine

0046

FORM I SV-2

1/87 Rev.

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0113

SBLKS

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: Q1032902

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41350

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.05

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	350.	U
111-44-4	bis(2-Chloroethyl)ether	350.	U
95-57-8	2-Chlorophenol	350.	U
541-73-1	1,3-Dichlorobenzene	350.	U
106-46-7	1,4-Dichlorobenzene	350.	U
100-51-6	Benzyl alcohol	350.	U
95-50-1	1,2-Dichlorobenzene	350.	U
95-48-7	2-Methylphenol	350.	U
108-60-1	bis(2-Chloroisopropyl)ether	350.	U
106-44-5	4-Methylphenol	350.	U
621-64-7	N-Nitroso-di-n-propylamine	350.	U
67-72-1	Hexachloroethane	350.	U
98-95-3	Nitrobenzene	350.	U
78-59-1	Isophorone	350.	U
88-75-5	2-Nitrophenol	350.	U
105-67-9	2,4-Dimethylphenol	350.	U
65-85-0	Benzoic acid	1700.	U
111-91-1	bis(2-Chloroethoxy)methane	350.	U
120-83-2	2,4-Dichlorophenol	350.	U
120-82-1	1,2,4-Trichlorobenzene	350.	U
91-20-3	Naphthalene	350.	U
106-47-8	4-Chloroaniline	350.	U
87-68-3	Hexachlorobutadiene	350.	U
59-50-7	4-Chloro-3-methylphenol	350.	U
91-57-6	2-Methylnaphthalene	350.	U
77-47-4	Hexachlorocyclopentadiene	350.	U
88-06-2	2,4,6-Trichlorophenol	350.	U
95-95-4	2,4,5-Trichlorophenol	1700.	U
91-58-7	2-Chloronaphthalene	350.	U
88-74-4	2-Nitroaniline	1700.	U
131-11-3	Dimethylphthalate	350.	U
208-96-8	Acenaphthylene	350.	U
606-20-2	2,6-Dinitrotoluene	350.	U

0047

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0114

SELKS

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: Q1032902

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41350

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 3/30/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.05

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----3-Nitroaniline_____	1700.	U
83-32-9-----Acenaphthene_____	350.	U
51-28-5-----2,4-Dinitrophenol_____	1700.	U
100-02-7-----4-Nitrophenol_____	1700.	U
132-64-9-----Dibenzofuran_____	350.	U
121-14-2-----2,4-Dinitrotoluene_____	350.	U
84-66-2-----Diethylphthalate_____	350.	U
7005-72-3-----4-Chlorophenyl-phenylether_____	350.	U
86-73-7-----Fluorene_____	350.	U
100-01-6-----4-Nitroaniline_____	1700.	U
534-52-1-----4,6-Dinitro-2-methylphenol_____	1700.	U
86-30-6-----N-Nitrosodiphenylamine_____	350.	U
101-55-3-----4-Bromophenyl-phenylether_____	350.	U
118-74-1-----Hexachlorobenzene_____	350.	U
87-86-5-----Pentachlorophenol_____	1700.	U
85-01-8-----Phenanthrene_____	350.	U
120-12-7-----Anthracene_____	350.	U
84-74-2-----Di-n-butylphthalate_____	350.	U
206-44-0-----Fluoranthene_____	350.	U
129-00-0-----Pyrene_____	350.	U
85-68-7-----Butylbenzylphthalate_____	67.	J
91-94-1-----3,3'-Dichlorobenzidine_____	690.	U
56-55-3-----Benzo(a)anthracene_____	350.	U
218-01-9-----Chrysene_____	350.	U
117-81-7-----bis(2-Ethylhexyl)phthalate_____	110.	J
117-84-0-----Di-n-octylphthalate_____	350.	U
205-99-2-----Benzo(b)fluoranthene_____	350.	U
207-08-9-----Benzo(k)fluoranthene_____	350.	U
50-32-8-----Benzo(a)pyrene_____	350.	U
193-39-5-----Indeno(1,2,3-cd)pyrene_____	350.	U
53-70-3-----Dibenz(a,h)anthracene_____	350.	U
191-24-2-----Benzo(g,h,i)perylene_____	350.	U

(1) - Cannot be separated from diphenylamine

13
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0115

SB05 MS

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MS

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41385

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
108-95-2	Phenol	7600.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	4200.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	1400.	J
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	10000.	U
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	2400.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	1700.	J
91-20-3	Naphthalene	5600.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	2900.	J
91-57-6	2-Methylnaphthalene	2300.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	11000.	
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0116

SR05 MS

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MS

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 41385

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG G

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	G
99-09-2-----	3-Nitroaniline_____	49000.	U
83-32-9-----	Acenaphthene_____	1700.	J
51-28-5-----	2,4-Dinitrophenol_____	49000.	U
100-02-7-----	4-Nitrophenol_____	49000.	U
132-64-9-----	Dibenzofuran_____	10000.	U
121-14-2-----	2,4-Dinitrotoluene_____	530.	J
84-66-2-----	Diethylphthalate_____	10000.	U
7005-72-3-----	4-Chlorophenyl-phenylether_____	10000.	U
86-73-7-----	Fluorene_____	10000.	U
100-01-6-----	4-Nitroaniline_____	49000.	U
534-52-1-----	4,6-Dinitro-2-methylphenol_____	49000.	U
86-30-6-----	N-Nitrosodiphenylamine_____	10000.	U
101-55-3-----	4-Bromophenyl-phenylether_____	10000.	U
118-74-1-----	Hexachlorobenzene_____	10000.	U
87-86-5-----	Pentachlorophenol_____	2900.	J
85-01-8-----	Phenanthrene_____	10000.	U
120-12-7-----	Anthracene_____	10000.	U
84-74-2-----	Di-n-butylphthalate_____	26000.	
206-44-0-----	Fluoranthene_____	10000.	U
129-00-0-----	Pyrene_____	1400.	J
85-68-7-----	Butylbenzylphthalate_____	40000.	B
91-94-1-----	3,3'-Dichlorobenzidine_____	20000.	U
56-55-3-----	Benzo(a)anthracene_____	10000.	U
218-01-9-----	Chrysene_____	10000.	U
117-81-7-----	bis(2-Ethylhexyl)phthalate_____	120000.	B
117-84-0-----	Di-n-octylphthalate_____	10000.	U
205-99-2-----	Benzo(b)fluoranthene_____	10000.	U
207-08-9-----	Benzo(k)fluoranthene_____	10000.	U
50-32-8-----	Benzo(a)pyrene_____	10000.	U
193-39-5-----	Indeno(1,2,3-cd)pyrene_____	10000.	U
53-70-3-----	Dibenz(a,h)anthracene_____	10000.	U
191-24-2-----	Benzo(g,h,i)perylene_____	10000.	U

(1) - Cannot be separated from diphenylamine

18
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0117

5805 MSD

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDS No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MSD

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 41386

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	6900.	J
111-44-4	bis(2-Chloroethyl)ether	10000.	U
95-57-8	2-Chlorophenol	4000.	J
541-73-1	1,3-Dichlorobenzene	10000.	U
106-46-7	1,4-Dichlorobenzene	1200.	J
100-51-6	Benzyl alcohol	10000.	U
95-50-1	1,2-Dichlorobenzene	10000.	U
95-48-7	2-Methylphenol	10000.	U
108-60-1	bis(2-Chloroisopropyl)ether	10000.	U
106-44-5	4-Methylphenol	10000.	U
621-64-7	N-Nitroso-di-n-propylamine	3400.	J
67-72-1	Hexachloroethane	10000.	U
98-95-3	Nitrobenzene	10000.	U
78-59-1	Isophorone	2200.	J
88-75-5	2-Nitrophenol	10000.	U
105-67-9	2,4-Dimethylphenol	10000.	U
65-85-0	Benzoic acid	49000.	U
111-91-1	bis(2-Chloroethoxy)methane	10000.	U
120-83-2	2,4-Dichlorophenol	10000.	U
120-82-1	1,2,4-Trichlorobenzene	1600.	J
91-20-3	Naphthalene	5000.	J
106-47-8	4-Chloroaniline	10000.	U
87-68-3	Hexachlorobutadiene	10000.	U
59-50-7	4-Chloro-3-methylphenol	3000.	J
91-57-6	2-Methylnaphthalene	2000.	J
77-47-4	Hexachlorocyclopentadiene	10000.	U
88-06-2	2,4,6-Trichlorophenol	10000.	U
95-95-4	2,4,5-Trichlorophenol	49000.	U
91-58-7	2-Chloronaphthalene	10000.	U
88-74-4	2-Nitroaniline	49000.	U
131-11-3	Dimethylphthalate	11000.	
208-96-8	Acenaphthylene	10000.	U
606-20-2	2,6-Dinitrotoluene	10000.	U

1C
SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 9 0118

SBOS MSD

Lab Name: ECOTEX

Contract:

Lab Code: ECOTEX

Case No.: BASKET SAS No.:

SDG No.:

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MSD

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 41386

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 6/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 26.33

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

99-09-2-----3-Nitroaniline_____	49000.	U
83-32-9-----Acenaphthene_____	1800.	J
51-28-5-----2,4-Dinitrophenol_____	49000.	U
100-02-7-----4-Nitrophenol_____	5100.	J
132-64-9-----Dibenzofuran_____	10000.	U
121-14-2-----2,4-Dinitrotoluene_____	670.	J
84-66-2-----Diethylphthalate_____	10000.	U
7005-72-3-----4-Chlorophenyl-phenylether_____	10000.	U
86-73-7-----Fluorene_____	10000.	U
100-01-6-----4-Nitroaniline_____	49000.	U
534-52-1-----4,6-Dinitro-2-methylphenol_____	49000.	U
86-30-6-----N-Nitrosodiphenylamine_____	10000.	U
101-55-3-----4-Bromophenyl-phenylether_____	10000.	U
118-74-1-----Hexachlorobenzene_____	10000.	U
87-86-5-----Pentachlorophenol_____	3300.	J
85-01-8-----Phenanthrene_____	10000.	U
120-12-7-----Anthracene_____	10000.	U
84-74-2-----Di-n-butylphthalate_____	24000.	
206-44-0-----Fluoranthene_____	10000.	U
129-00-0-----Pyrene_____	1500.	J
85-68-7-----Butylbenzylphthalate_____	39000.	B
91-94-1-----3,3'-Dichlorobenzidine_____	20000.	U
56-55-3-----Benzo(a)anthracene_____	10000.	U
218-01-9-----Chrysene_____	10000.	U
117-81-7-----bis(2-Ethylhexyl)phthalate_____	110000.	B
117-84-0-----Di-n-octylphthalate_____	10000.	U
205-99-2-----Benzo(b)fluoranthene_____	10000.	U
207-08-9-----Benzo(k)fluoranthene_____	10000.	U
50-32-8-----Benzo(a)pyrene_____	10000.	U
193-39-5-----Indeno(1,2,3-cd)pyrene_____	10000.	U
53-70-3-----Dibenz(a,h)anthracene_____	10000.	U
191-24-2-----Benzo(g,h,i)perylene_____	10000.	U

(1) - Cannot be separated from diphenylamine

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

1 9 0119

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET

SAS No.:

SDG No.:

	EPA	S1	S2	S3	S4	S5	S6	OTHER	TOT
	SAMPLE NO.	(NBZ)#	(FBP)#	(TPH)#	(PHL)#	(2FP)#	(TBP)#		OUT
1	SBLKW	81	75	115	54	26	63		0
2	PW01	79	71	90	55	28	68		0
3	PW02	82	84	66	44	32	63		0
4	SW01	71	71	41	47	22	59		0
5									
6									
7									
8									
9									
10									
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24									
25									
26									
27									
28									
29									
30									

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (35-114)
 S2 (FBP) = 2-Fluorobiphenyl (43-116)
 S3 (TPH) = Terphenyl-d14 (33-141)
 S4 (PHL) = Phenol-d6 (10- 94)
 S5 (2FP) = 2-Fluorophenol (21-100)
 S6 (TBP) = 2,4,6-Tribromophenol (10-123)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

20
SOIL SEMIVOLATILE SURROGATE RECOVERY

1 9 0120

Lab Name: ECOTEK

Contract:

Lab Code: ECOTEK

Case No.: BASKET SAS No.:

SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SB05	82	42	57	47	20 *	29		1
2	SB05 MS	98	49	59	62	27	34		0
3	SB05 MSD	87	52	65	60	23 *	41		1
4	SB06	120 *	53	74	80	35	50		1
5									
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7									
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29									
30									

QC LIMITS

S1 (NBZ) = Nitrobenzene-d5 (23-120)
 S2 (FBP) = 2-Fluorobiphenyl (30-115)
 S3 (TPH) = Terphenyl-d14 (18-137)
 S4 (PHL) = Phenol-d6 (24-113)
 S5 (2FP) = 2-Fluorophenol (25-121)
 S6 (TBP) = 2,4,6-Tribromophenol (19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0054

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

1 9 0121

Lab Name: ECOTEX

Contract:

Lab Code: ECOTEX

Case No.: BASKET

SAS No.:

SDG No.:

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
1	SBLKS	74	72	108	92	50	61		0
2	SD01	70	65	103	89	53	66		0
3	SB01	72	65	102	92	47	75		0
4									
5									
6									
7									
8									
9									
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28									
29									
30									

	QC LIMITS
S1 (NBZ) = Nitrobenzene-d5	(23-120)
S2 (FBP) = 2-Fluorobiphenyl	(30-115)
S3 (TPH) = Terphenyl-d14	(18-137)
S4 (PHL) = Phenol-d6	(24-113)
S5 (2FP) = 2-Fluorophenol	(25-121)
S6 (TBP) = 2,4,6-Tribromophenol	(19-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0055

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ECDTEK

Contract:

1 9 0122

Ac Code: ECDTEK

Case No.: BASKET SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: SB05

Level: (low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS RPD
Phenol	7734.	4267.	7640.	44.	26-90
2-Chlorophenol	7734.	1012.	4250.	42.	25-102
1,4-Dichlorobenzene	3867.	0.	1371.	35.	28-104
N-Nitroso-di-n-prop.(1)	3867.	0.	0.	0.	*41-126
1,2,4-Trichlorobenzene	3867.	0.	1679.	43.	38-107
4-Chloro-3-methylphenol	7734.	0.	2905.	38.	26-103
Acenaphthene	3867.	0.	1699.	44.	31-137
4-Nitrophenol	7734.	0.	0.	0.	*11-114
2,4-Dinitrotoluene	3867.	0.	533.	14.	*28-89
Pentachlorophenol	7734.	0.	2897.	37.	17-109
Pyrene	3867.	0.	1359.	35.	35-147

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	7708.	6918.	34.	24.	35	26-90
2-Chlorophenol	7708.	4006.	39.	7.	50	25-102
1,4-Dichlorobenzene	3854.	1177.	31.	15.	27	28-104
N-Nitroso-di-n-prop.(1)	3854.	3378.	88.	200.	*38	41-126
1,2,4-Trichlorobenzene	3854.	1606.	42.	4.	23	38-107
4-Chloro-3-methylphenol	7708.	3036.	39.	5.	33	26-103
Acenaphthene	3854.	1803.	47.	6.	19	31-137
4-Nitrophenol	7708.	5078.	66.	200.	*50	11-114
2,4-Dinitrotoluene	3854.	672.	17.	*23.	47	28-89
Pentachlorophenol	7708.	3296.	43.	13.	47	17-109
Pyrene	3854.	1468.	38.	8.	36	35-147

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 11 outside limits

Spike Recovery: 4 out of 22 outside limits

REMARKS:

0056

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0123
EPA SAMPLE NO.

PW01

L Name: ECOTEK Contract: RFW

Lab Code: ECOTEK Case No.: *BASKET* SAS No.: SDG No.: PW01

Matrix: (soil/water) WATER Lab Sample ID: 005401

Sample wt/vol: 970. (g/mL)ML Lab File ID: 100988

Level: (low/med) LOW Date Received: 3/28/90

% Moisture: not dec.100. dec. 0. Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.00

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO. COMPOUND Q

319-84-6-----	ALPHA-BHC	.031	U
319-85-7-----	BETA-BHC	.062	U
319-86-8-----	DELTA-BHC	.094	U
58-89-9-----	GAMMA-BHC	.042	U
76-44-8-----	HEPTACHLOR	.031	U
309-00-2-----	ALDRIN	.042	U
1024-57-3-----	HEPTACHLOR EPOXIDE	.86	U
959-98-8-----	ENDOSULFAN I	.15	U
60-57-1-----	DIELDRIN	.021	U
72-55-9-----	4,4'-DDE	.042	U
72-20-8-----	ENDRIN	.062	U
33213-65-9-----	ENDOSULFAN II	.042	U
72-54-8-----	4,4'-DDD	.11	U
1031-07-8-----	ENDOSULFAN SULFATE	.69	U
50-29-3-----	4,4'-DDT	.12	U
72-43-5-----	METHOXYCHLOR	1.8	U
7421-93-4-----	ENDRIN ALDEHYDE	.24	U
5103-71-9-----	ALPHA CHLORDANE	.15	U
5103-74-2-----	GAMMA CHLORDANE	.15	U
8001-35-2-----	TOXAPHENE	2.5	U
12674-11-2-----	AROCLOR-1016	.26	U
11104-28-2-----	AROCLOR-1221	.26	U
11141-16-5-----	AROCLOR-1232	.26	U
53469-21-9-----	AROCLOR-1242	.68	U
12672-29-6-----	AROCLOR-1248	.26	U
11097-69-1-----	AROCLOR-1254	.52	U
11096-82-5-----	AROCLOR-1260	.52	U

1 9 0124

EPA SAMPLE NO.

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

PW02

I Name: ECOTEK

Contract: RFW

Lab Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: 005402

Sample wt/vol: 995. (g/mL)ML

Lab File ID: 1009B9

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec.100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----	ALPHA-BHC	.030	U
319-85-7-----	BETA-BHC	.061	U
319-86-8-----	DELTA-BHC	.091	U
58-89-9-----	GAMMA-BHC	.041	U
76-44-8-----	HEPTACHLOR	.030	U
309-00-2-----	ALDRIN	.041	U
1024-57-3-----	HEPTACHLOR EPOXIDE	.84	U
959-98-8-----	ENDOSULFAN I	.14	U
60-57-1-----	DIELDRIN	.020	U
72-55-9-----	4,4'-DDE	.041	U
72-20-8-----	ENDRIN	.061	U
33213-65-9-----	ENDOSULFAN II	.041	U
72-54-8-----	4,4'-DDD	.11	U
1031-07-8-----	ENDOSULFAN SULFATE	.67	U
50-29-3-----	4,4'-DDT	.12	U
72-43-5-----	METHOXYCHLOR	1.8	U
7421-93-4-----	ENDRIN ALDEHYDE	.23	U
5103-71-9-----	ALPHA CHLORDANE	.14	U
5103-74-2-----	GAMMA CHLORDANE	.14	U
8001-35-2-----	TOXAPHENE	2.4	U
12674-11-2-----	AROCLOR-1016	.25	U
11104-28-2-----	AROCLOR-1221	.25	U
11141-16-5-----	AROCLOR-1232	.25	U
53469-21-9-----	AROCLOR-1242	.66	U
12672-29-6-----	AROCLOR-1248	.25	U
11097-69-1-----	AROCLOR-1254	.51	U
11096-82-5-----	AROCLOR-1260	.51	U

0058

10
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0125
EPA SAMPLE NO.

SB01

Lab Name: ECOTEK

Contract: RFW

Lab Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005601

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B19

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/10/90

GPC Cleanup: (Y/N) N

pH: 7.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

319-84-6-----	ALPHA-BHC	2.5	U
319-85-7-----	BETA-BHC	5.1	U
319-86-8-----	DELTA-BHC	7.6	U
58-89-9-----	GAMMA-BHC	3.4	U
76-44-8-----	HEPTACHLOR	2.5	U
309-00-2-----	ALDRIN	3.4	U
1024-57-3-----	HEPTACHLOR EPOXIDE	70.	U
959-98-8-----	ENDOSULFAN I	12.	U
60-57-1-----	DIELDRIN	1.7	U
72-55-9-----	4,4'-DDE	3.4	U
72-20-8-----	ENDRIN	5.1	U
33213-65-9-----	ENDOSULFAN II	3.4	U
72-54-8-----	4,4'-DDD	9.3	U
1031-07-8-----	ENDOSULFAN SULFATE	56.	U
50-29-3-----	4,4'-DDT	10.	U
72-43-5-----	METHOXYCHLOR	150.	U
7421-93-4-----	ENDRIN ALDEHYDE	19.	U
5103-71-9-----	ALPHA CHLORDANE	12.	U
5103-74-2-----	GAMMA CHLORDANE	12.	U
8001-35-2-----	TOXAPHENE	200.	U
12674-11-2-----	AROCLOR-1016	21.	U
11104-28-2-----	AROCLOR-1221	21.	U
11141-16-5-----	AROCLOR-1232	21.	U
53469-21-9-----	AROCLOR-1242	55.	U
12672-29-6-----	AROCLOR-1248	21.	U
11097-69-1-----	AROCLOR-1254	42.	U
11096-82-5-----	AROCLOR-1260	42.	U

0059

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0126
EPA SAMPLE NO.

SB05

Lab Name: ECOTEK

Contract: RFW

Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404*20

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B11

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N

PH: 6.0

Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

319-84-6-----ALPHA-BHC	47.	U
319-85-7-----BETA-BHC	94.	U
319-86-8-----DELTA-BHC	140.	U
58-89-9-----GAMMA-BHC	240.	
76-44-8-----HEPTACHLOR	120.	
309-00-2-----ALDRIN	130.	
1024-57-3-----HEPTACHLOR EPOXIDE	1300.	U
959-98-8-----ENDOSULFAN I	220.	U
60-57-1-----DIELDRIN	31.	U
72-55-9-----4,4'-DDE	63.	U
72-20-8-----ENDRIN	94.	U
33213-65-9-----ENDOSULFAN II	63.	U
72-54-8-----4,4'-DDD	170.	U
1031-07-8-----ENDOSULFAN SULFATE	1000.	U
50-29-3-----4,4'-DDT	190.	U
72-43-5-----METHOXYCHLOR	2800.	U
7421-93-4-----ENDRIN ALDEHYDE	360.	U
5103-71-9-----ALPHA CHLORDANE	220.	U
5103-74-2-----GAMMA CHLORDANE	220.	U
8001-35-2-----TOXAPHENE	3800.	U
12674-11-2-----AROCLOR-1016	390.	U
11104-28-2-----AROCLOR-1221	390.	U
11141-16-5-----AROCLOR-1232	390.	U
53469-21-9-----AROCLOR-1242	1000.	U
12672-29-6-----AROCLOR-1248	390.	U
11097-69-1-----AROCLOR-1254	3400.	
11096-82-5-----AROCLOR-1260	780.	U

0060

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0127
EPA SAMPLE NO.

SB06

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005405*20

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009814

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 20. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

319-84-6-----ALPHA-BHC	51.	U
319-85-7-----BETA-BHC	100.	U
319-86-8-----DELTA-BHC	150.	U
58-89-9-----GAMMA-BHC	68.	U
76-44-8-----HEPTACHLOR	51.	U
309-00-2-----ALDRIN	68.	U
1024-57-3-----HEPTACHLOR EPOXIDE	1400.	U
959-98-8-----ENDOSULFAN I	240.	U
60-57-1-----DIELDRIN	34.	U
72-55-9-----4,4'-DDE	68.	U
72-20-8-----ENDRIN	100.	U
33213-65-9-----ENDOSULFAN II	68.	U
72-54-8-----4,4'-DDD	190.	U
1031-07-8-----ENDOSULFAN SULFATE	1100.	U
50-29-3-----4,4'-DDT	200.	U
72-43-5-----METHOXYCHLOR	3000.	U
7421-93-4-----ENDRIN ALDEHYDE	390.	U
5103-71-9-----ALPHA CHLORDANE	240.	U
5103-74-2-----GAMMA CHLORDANE	240.	U
8001-35-2-----TOXAPHENE	4100.	U
12674-11-2-----AROCLOR-1016	420.	U
11104-28-2-----AROCLOR-1221	420.	U
11141-16-5-----AROCLOR-1232	420.	U
53469-21-9-----AROCLOR-1242	1100.	U
12672-29-6-----AROCLOR-1248	420.	U
11097-69-1-----AROCLOR-1254	2700.	U
11096-82-5-----AROCLOR-1260	850.	U

0061

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0128
EPA SAMPLE NO.

SD01

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005406

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B16

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 23. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/10/90

GPC Cleanup: (Y/N) N pH: 7.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

319-84-6-----	ALPHA-BHC	2.6	U
319-85-7-----	BETA-BHC	5.3	U
319-86-8-----	DELTA-BHC	7.9	U
58-89-9-----	GAMMA-BHC	3.5	U
76-44-8-----	HEPTACHLOR	2.6	U
309-00-2-----	ALDRIN	9.2	
1024-57-3-----	HEPTACHLOR EPOXIDE	73.	U
959-98-8-----	ENDOSULFAN I	12.	U
60-57-1-----	DIELDRIN	1.8	U
72-55-9-----	4,4'-DDE	3.5	U
72-20-8-----	ENDRIN	5.3	U
33213-65-9-----	ENDOSULFAN II	3.5	U
72-54-8-----	4,4'-DDD	10.	U
1031-07-8-----	ENDOSULFAN SULFATE	58.	U
50-29-3-----	4,4'-DDT	11.	U
72-43-5-----	METHOXYCHLOR	150.	U
7421-93-4-----	ENDRIN ALDEHYDE	20.	U
5103-71-9-----	ALPHA CHLORDANE	7.2	J
5103-74-2-----	GAMMA CHLORDANE	12.	U
8001-35-2-----	TOXAPHENE	210.	U
12674-11-2-----	AROCLOR-1016	22.	U
11104-28-2-----	AROCLOR-1221	22.	U
11141-16-5-----	AROCLOR-1232	22.	U
53469-21-9-----	AROCLOR-1242	57.	U
12672-29-6-----	AROCLOR-1248	22.	U
11097-69-1-----	AROCLOR-1254	44.	U
11096-82-5-----	AROCLOR-1260	44.	U

0062

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0129
EPA SAMPLE NO.

SW01

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK

Case No.: *BASKET*

SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: 005403

Sample wt/vol: 1005. (g/mL)ML

Lab File ID: 1009B10

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec.100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----ALPHA-BHC	.030	U
319-85-7-----BETA-BHC	.060	U
319-86-8-----DELTA-BHC	.090	U
58-89-9-----GAMMA-BHC	.040	U
76-44-8-----HEPTACHLOR	.030	U
309-00-2-----ALDRIN	.040	U
1024-57-3-----HEPTACHLOR EPOXIDE	.068	J
959-98-8-----ENDOSULFAN I	.14	U
60-57-1-----DIELDRIN	.020	U
72-55-9-----4,4'-DDE	.040	U
72-20-8-----ENDRIN	.060	U
33213-65-9-----ENDOSULFAN II	.040	U
72-54-8-----4,4'-DDD	.11	U
1031-07-8-----ENDOSULFAN SULFATE	.66	U
50-29-3-----4,4'-DDT	.12	U
72-43-5-----METHOXYCHLOR	1.8	U
7421-93-4-----ENDRIN ALDEHYDE	.23	U
5103-71-9-----ALPHA CHLORDANE	.14	U
5103-74-2-----GAMMA CHLORDANE	.14	U
8001-35-2-----TOXAPHENE	2.4	U
12674-11-2-----AROCLOR-1016	.25	U
11104-28-2-----AROCLOR-1221	.25	U
11141-16-5-----AROCLOR-1232	.25	U
53469-21-9-----AROCLOR-1242	.65	U
12672-29-6-----AROCLOR-1248	.25	U
11097-69-1-----AROCLOR-1254	.50	U
11096-82-5-----AROCLOR-1260	.50	U

0063

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0130
EPA SAMPLE NO.

PBLKW

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK

Case No.: ~~BASKET~~ SAS No.:

SDG No.: PW01

Matrix: (soil/water) WATER

Lab Sample ID: Q1032801

Sample wt/vol: 1000. (g/mL)ML

Lab File ID: 100985

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec.100. dec. 0.

Date Extracted: 3/28/90

Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6-----	ALPHA-BHC	.030	U
319-85-7-----	BETA-BHC	.061	U
319-86-8-----	DELTA-BHC	.091	U
58-89-9-----	GAMMA-BHC	.040	U
76-44-8-----	HEPTACHLOR	.030	U
309-00-2-----	ALDRIN	.040	U
1024-57-3-----	HEPTACHLOR EPOXIDE	.84	U
959-98-8-----	ENDOSULFAN I	.14	U
60-57-1-----	DIELDRIN	.020	U
72-55-9-----	4,4'-DDE	.040	U
72-20-8-----	ENDRIN	.061	U
33213-65-9-----	ENDOSULFAN II	.040	U
72-54-8-----	4,4'-DDD	.11	U
1031-07-8-----	ENDOSULFAN SULFATE	.67	U
50-29-3-----	4,4'-DDT	.12	U
72-43-5-----	METHOXYCHLOR	1.8	U
7421-93-4-----	ENDRIN ALDEHYDE	.23	U
5103-71-9-----	ALPHA CHLORDANE	.14	U
5103-74-2-----	GAMMA CHLORDANE	.14	U
8001-35-2-----	TOXAPHENE	2.4	U
12674-11-2-----	AROCLOR-1016	.25	U
11104-28-2-----	AROCLOR-1221	.25	U
11141-16-5-----	AROCLOR-1232	.25	U
53469-21-9-----	AROCLOR-1242	.66	U
12672-29-6-----	AROCLOR-1248	.25	U
11097-69-1-----	AROCLOR-1254	.51	U
11096-82-5-----	AROCLOR-1260	.51	U

0064

19 0131

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKS

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: Q1032902

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B4

Level: (low/med) LOW

Date Received: 0/ 0/ 0

% Moisture: not dec. 0. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 1.00

CAS NO. COMPOUND CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG Q

319-84-6-----	ALPHA-BHC	2.0	U
319-85-7-----	BETA-BHC	4.1	U
319-86-8-----	DELTA-BHC	6.1	U
58-89-9-----	GAMMA-BHC	2.7	U
76-44-8-----	HEPTACHLOR	2.0	U
309-00-2-----	ALDRIN	2.7	U
1024-57-3-----	HEPTACHLOR EPOXIDE	56.	U
959-98-8-----	ENDOSULFAN I	9.5	U
60-57-1-----	DIELDRIN	1.4	U
72-55-9-----	4,4'-DDE	2.7	U
72-20-8-----	ENDRIN	4.1	U
33213-65-9-----	ENDOSULFAN II	2.7	U
72-54-8-----	4,4'-DDD	7.4	U
1031-07-8-----	ENDOSULFAN SULFATE	45.	U
50-29-3-----	4,4'-DDT	8.1	U
72-43-5-----	METHOXYCHLOR	120.	U
7421-93-4-----	ENDRIN ALDEHYDE	16.	U
5103-71-9-----	ALPHA CHLORDANE	9.5	U
5103-74-2-----	GAMMA CHLORDANE	9.5	U
8001-35-2-----	TOXAPHENE	160.	U
12674-11-2-----	AROCLOR-1016	17.	U
11104-28-2-----	AROCLOR-1221	17.	U
11141-16-5-----	AROCLOR-1232	17.	U
53469-21-9-----	AROCLOR-1242	44.	U
12672-29-6-----	AROCLOR-1248	17.	U
11097-69-1-----	AROCLOR-1254	34.	U
11096-82-5-----	AROCLOR-1260	34.	U

0065

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0132
EPA SAMPLE NO.

SB05 MS

Lab Name: ECOTEK

Contract: RFW

Code: ECOTEK

Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MS*20

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B12

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N

pH: 6.0

Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

319-84-6-----ALPHA-BHC	47.	U
319-85-7-----BETA-BHC	94.	U
319-86-8-----DELTA-BHC	140.	U
58-89-9-----GAMMA-BHC	200.	
76-44-8-----HEPTACHLOR	120.	
309-00-2-----ALDRIN	140.	
1024-57-3-----HEPTACHLOR EPOXIDE	1300.	U
959-98-8-----ENDOSULFAN I	220.	U
60-57-1-----DIELDRIN	31.	U
72-55-9-----4,4'-DDE	63.	U
72-20-8-----ENDRIN	94.	U
33213-65-9-----ENDOSULFAN II	63.	U
72-54-8-----4,4'-DDD	170.	U
1031-07-8-----ENDOSULFAN SULFATE	1000.	U
50-29-3-----4,4'-DDT	190.	U
72-43-5-----METHOXYCHLOR	2800.	U
7421-93-4-----ENDRIN ALDEHYDE	360.	U
5103-71-9-----ALPHA CHLORDANE	220.	U
5103-74-2-----GAMMA CHLORDANE	220.	U
8001-35-2-----TOXAPHENE	3800.	U
12674-11-2-----AROCLOR-1016	390.	U
11104-28-2-----AROCLOR-1221	390.	U
11141-16-5-----AROCLOR-1232	390.	U
53469-21-9-----AROCLOR-1242	1000.	U
12672-29-6-----AROCLOR-1248	390.	U
11097-69-1-----AROCLOR-1254	4800.	
11096-82-5-----AROCLOR-1260	790.	U

0066

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

1 9 0133
EPA SAMPLE NO.

SB05 MSD

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK Case No.: *BASKET* SAS No.:

SDG No.: PW01

Matrix: (soil/water) SOIL

Lab Sample ID: 005404MSD*20

Sample wt/vol: 30. (g/mL) G

Lab File ID: 1009B13

Level: (low/med) LOW

Date Received: 3/28/90

% Moisture: not dec. 14. dec. 0.

Date Extracted: 3/29/90

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 4/ 9/90

GPC Cleanup: (Y/N) N pH: 6.0

Dilution Factor: 20.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

319-84-6-----	ALPHA-BHC	47.	U
319-85-7-----	BETA-BHC	94.	U
319-86-8-----	DELTA-BHC	140.	U
58-89-9-----	GAMMA-BHC	170.	
76-44-8-----	HEPTACHLOR	100.	
309-00-2-----	ALDRIN	110.	
1024-57-3-----	HEPTACHLOR EPOXIDE	1300.	U
959-98-8-----	ENDOSULFAN I	220.	U
60-57-1-----	DIELDRIN	31.	U
72-55-9-----	4,4'-DDE	63.	U
72-20-8-----	ENDRIN	94.	U
33213-65-9-----	ENDOSULFAN II	63.	U
72-54-8-----	4,4'-DDD	170.	U
1031-07-8-----	ENDOSULFAN SULFATE	1000.	U
50-29-3-----	4,4'-DDT	190.	U
72-43-5-----	METHOXYCHLOR	2800.	U
7421-93-4-----	ENDRIN ALDEHYDE	360.	U
5103-71-9-----	ALPHA CHLORDANE	220.	U
5103-74-2-----	GAMMA CHLORDANE	220.	U
8001-35-2-----	TOXAPHENE	3800.	U
12674-11-2-----	AROCLOR-1016	390.	U
11104-28-2-----	AROCLOR-1221	390.	U
11141-16-5-----	AROCLOR-1232	390.	U
53469-21-9-----	AROCLOR-1242	1000.	U
12672-29-6-----	AROCLOR-1248	390.	U
11097-69-1-----	AROCLOR-1254	4200.	
11096-82-5-----	AROCLOR-1260	780.	U

0067

2E
WATER PESTICIDE SURROGATE RECOVERY

1 9 0134

Lab Name: ECOTEK

Contract: RFW

L Code: ECOTEK

Case No.: *BASKET*

SAS No.:

SDG No.: PW01

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
	=====	=====	=====
1	PBLKW	51	
2	ZZZZZ	28	
3	ZZZZZ	28	
4	PW01	46	
5	PW02	45	
6	SW01	45	
7	ZZZZZ	40	
8	ZZZZZ	36	
9	ZZZZZ	17 *	
10	ZZZZZ	0 *	
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

ADVISORY
QC LIMITS
(24-154)

S1 (DBC) = DBC

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0063

2F
SOIL PESTICIDE SURROGATE RECOVERY

1 9 0135

Lab Name: ECOTEK

Contract: RFW

Code: ECOTEK

Case No.: *BASKET*

SAS No.:

SDG No.: PW01

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (DBC)#	OTHER
1	PBLKS	50	
2	SB05	2649 *	
3	SB05 MS	3530 *	
4	SB05 MSD	3103 *	
5	SB06	4955 *	
6	SD01	71	
7	SB01	51	
8	AR1254	17 *	
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

S1 (DBC) = DBC

ADVISORY
QC LIMITS
(20-150)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

0069

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: ECOTEK

Contract: RFW

Lab Code: ECOTEK

Case No.: *Basket* SAS No.:

SDG No.: PW01

Matrix Spike - EPA Sample No.: SB05

Level:(low/med) LOW

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
=====	=====	=====	=====	=====	=====
GAMMA-BHC	30.94	238.67	196.81	0. *	46-127
HEPTACHLOR	30.94	123.54	122.53	0. *	35-130
ALDRIN	30.94	132.07	137.22	17. *	34-132
DIELDRIN	77.34	.00	.00	0. *	31-134
ENDRIN	77.34	.00	.00	0. *	42-139
4,4'-DDT	77.34	.00	.00	0. *	23-134

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
=====	=====	=====	=====	=====	=====	=====
GAMMA-BHC	30.83	174.64	0. *	42.	50	46-127
HEPTACHLOR	30.83	100.00	0. *	184. *	31	35-130
ALDRIN	30.83	109.68	0. *	319. *	43	34-132
DIELDRIN	77.08	.00	0. *	**NA	38	31-134
ENDRIN	77.08	.00	0. *	**NA	45	42-139
4,4'-DDT	77.08	.00	0. *	**NA	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 6 outside limits

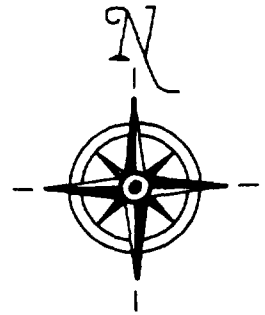
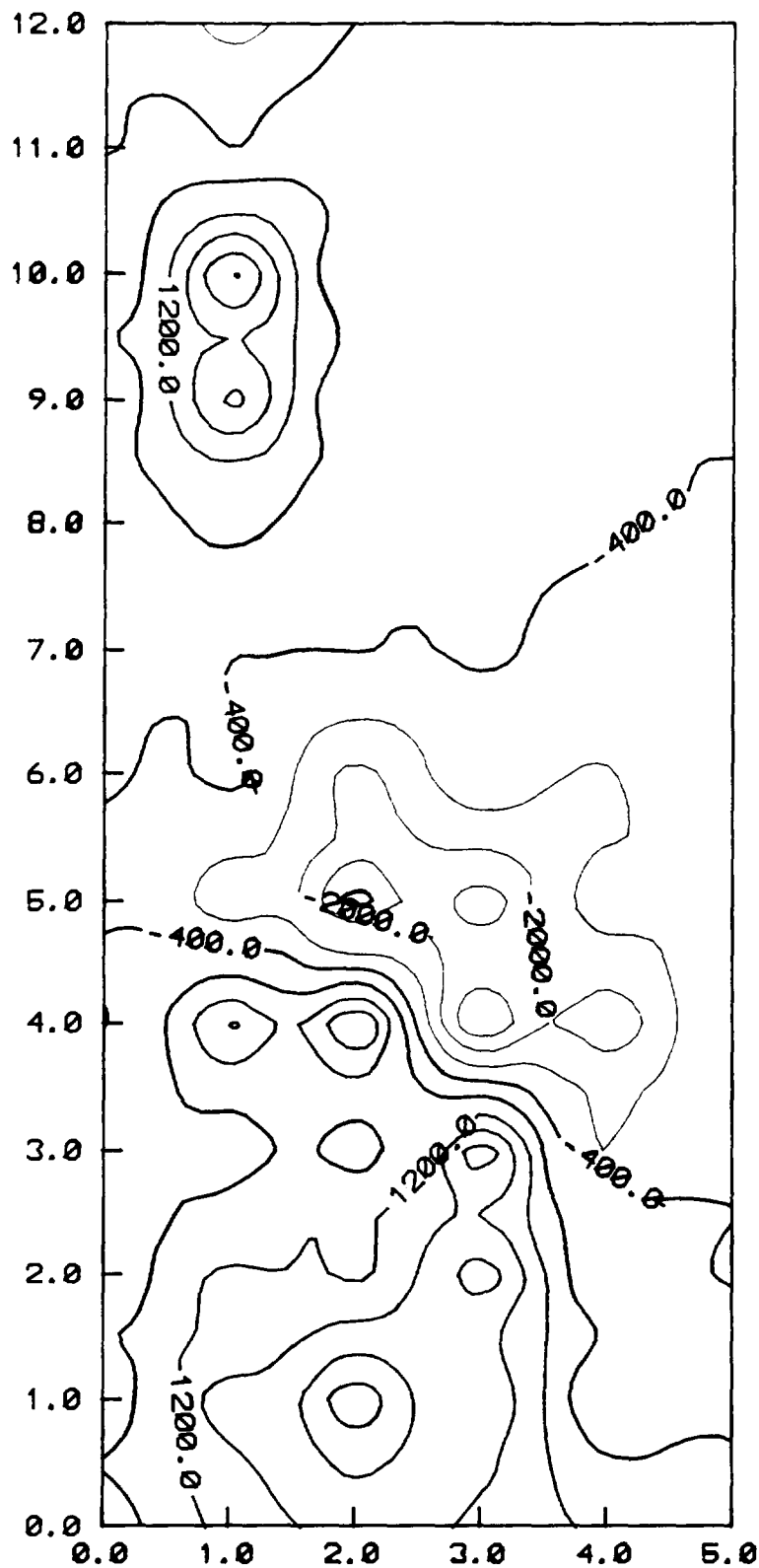
Spike Recovery: 12 out of 12 outside limits

COMMENTS:

0070

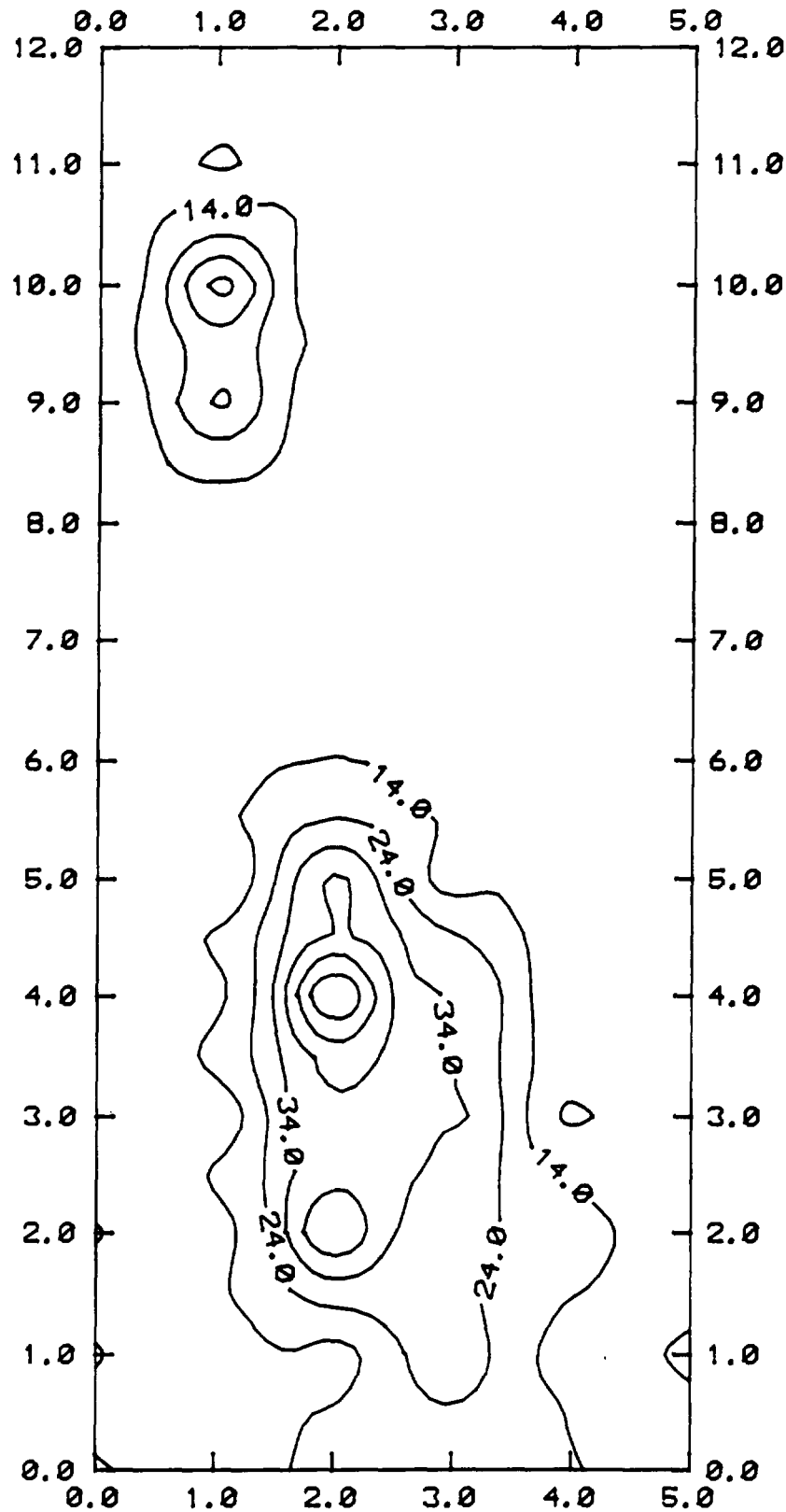
ATTACHMENT G
GEOPHYSICAL DATA

FORKET CREEK MAGNETIC ANOMALY CONTOUR MAP



SCALE 1 inch = 1.5 data units

BASKET CREEK EM-CONDUCTIVITY CONTOUR MAP



SCALE 1 inch = 1.5 data units

MAG FIELD DATA SHEET

1 9 0140

Background 52,300

STATION		Reading	Reading	Reading	52300	Comments
X	Y					
0	0			52475	+175	
0	1			52353	+53	
0	2			52134	-166	
0	3			51987	-313	
0	4			51875	-425	
0	5			51831	-469	
0	6			52000	-300	
0	7			52020	-280	
0	8			52147	-153	
0	9			52148	-152	
0	10			52093	-207	
0	11			51844	-456	Power lines
0	12			51670	-630	
1	1			54634	+2,334	
1	2			53600	+1,300	x
1	3			52240	-60	
1	4			54410	+2,110	x
1	5			50541	-1759	
1	6			52125	-175	
1	7			51918	-382	
1	8			52919	+619	
1	9			55303	+3003	x
1	10			55999	+3,699	x
1	11			51873	-427	
1	12			50800	-1500	

Location Basket Creek

MAG FIELD DATA SHEET

1 9 0141

Background 52,300

STATION		Reading	Reading	Reading	52300	Comments
X	Y					
2	1			56415	4,115	
2	2			53361	1,061	
2	3			52300	0	
2	4			55140	2840	* 58800 1/2 between 23-24
2	5			48385	-3,915	
2	6			50127	-2,173	
2	7			51940	-360	
2	8			52137	-163	
2	9			52031	-269	
2	10			51980	-320	
3	1			54710	2,410	
3	2			55435	3,135	
3	3			58501	6,201	* Near Concrete Pipe
3	4			48720	-3,580	
3	5			49140	-3,160	
3	6			51610	-690	
3	7			52051	-249	
3	8			52146	-154	
4	1			52120	-180	
4	2			52062	-238	
4	3			51083	-1218	
4	4			49698	-2602	
4	5			51518	-782	On Outcrop

Location Basket Creek

Background 52,300

Location Basket Creek

EM FIELD DATA SHEET

Background 3.4 mmho/m

STATION		Instrument Reading	SCALE	Conductivity mmho/m	Comments
X	Y				
0	0	.35	10	3.5	
0	1	.36	10	3.6	
0	2	.36	10	3.6	
0	3	.40	10	4.0	
0	4	.42	10	4.2	
0	5	.42	10	4.2	
0	6	.44	10	4.4	
0	7	.58	10	5.8	
0	8	.45	10	4.5	
0	9	.44	10	4.4	
0	10	.46	10	4.6	Power line
0	11	.52	10	5.2	
0	12	.44	10	4.4	
1	1	.82	10	8.2	
1	2	.38	30	11.4	.19(30) E-W
1	3	.80	10	8.0	
1	4	.41	30	12.3	.25(30) E-W
1	5	Ø	Ø	Ø	4.4 E-W
1	6	.40	30	12	.56(30) E-W
1	7	.88	10	8.8	
1	8	.75	10	7.5	
1	9	.36	100	36	
1	10	.48	100	48	.28(100) E-W
1	11	Ø	Ø	Ø	Void
1	12	.36	30	10.8	.30(30) E-W

Location Basket Creek

EM FIELD DATA SHEET

STATION		Instrument Reading	SCALE	Conductivity mmho/m	Comments
X	Y				
2	1	.32	30	9.6	
2	2	.55	100	55	crevasse in Ground
2	3	.42	100	42	
2	4	.76	100	76	
2	5	.46	100	46	
2	6	.47	30	14.1	
2	7	.70	10	7.0	
2	8	.55	10	5.5	
2	9	.51	10	5.1	
2	10	.50	10	5.0	
3	1	.95	30	28.5	
3	2	.92	30	27.6	.65(30) E-W
3	3	.35	100	35	Near Concrete Pipe
3	4	.34	100	34	.55(100) E-W
3	5	.91	10	9.1	
3	6	.50	10	5.0	
3	7	.50	10	5.0	
3	8	.49	10	4.9	Outcrop
4	1	.34	30	10.2	
4	2	.60	30	18	
4	3	Ø	Ø	Ø	
4	4	.76	10	7.6	
4	5	.42	10	4.2	

Location Basket Creek

EM FIELD DATA SHEET

[illegible]

Location Basket Creek

ATTACHMENT H
GEORGIA EPD FILE MATERIAL

SITE SUMMARY

BASKET CREEK BURIAL PIT/SITE NO. 2
DOUGLASVILLE, GA - DOUGLAS COUNTY


GAD980844849


The site consists of an old impoundment roughly $\frac{1}{4}$ acre in size that was used for approximately one year (1975-1976) before being burned and covered over. Mr. Lee Wallace of Douglasville, Georgia (now deceased) owned the site and accepted wastes from Young Refinery in Atlanta. State records indicate that Young Refinery accepted wastes for disposal or resale from various industries in Georgia and Alabama. The refinery is believed to have disposed of refinery wastes, amines, phenols, chloroform, acetone and trichloroethane, among other possible hazardous chemicals. The impoundment was probably unlined and the exact depth is uncertain (hence the impoundment contains an unknown amount of waste). The impoundment may be releasing its contents into the groundwater. There is no indication of surface water contamination at the site but the Chattahoochee River is about 1 mile away.

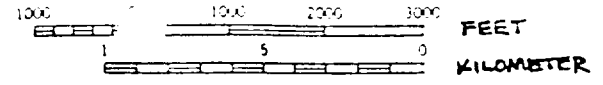
There are about 10 residences in the area and all use ground water for domestic purposes. One residence (trailer) is located about 75 feet from the impoundment and its well (depth unknown) is also about 75 feet from the impoundment.

The site is assessed as "high priority" for site inspection because of the distinct possibility that the buried impoundment may be contaminating nearby drinking wells. Mr. Lee Wallace's widow currently owns the site.

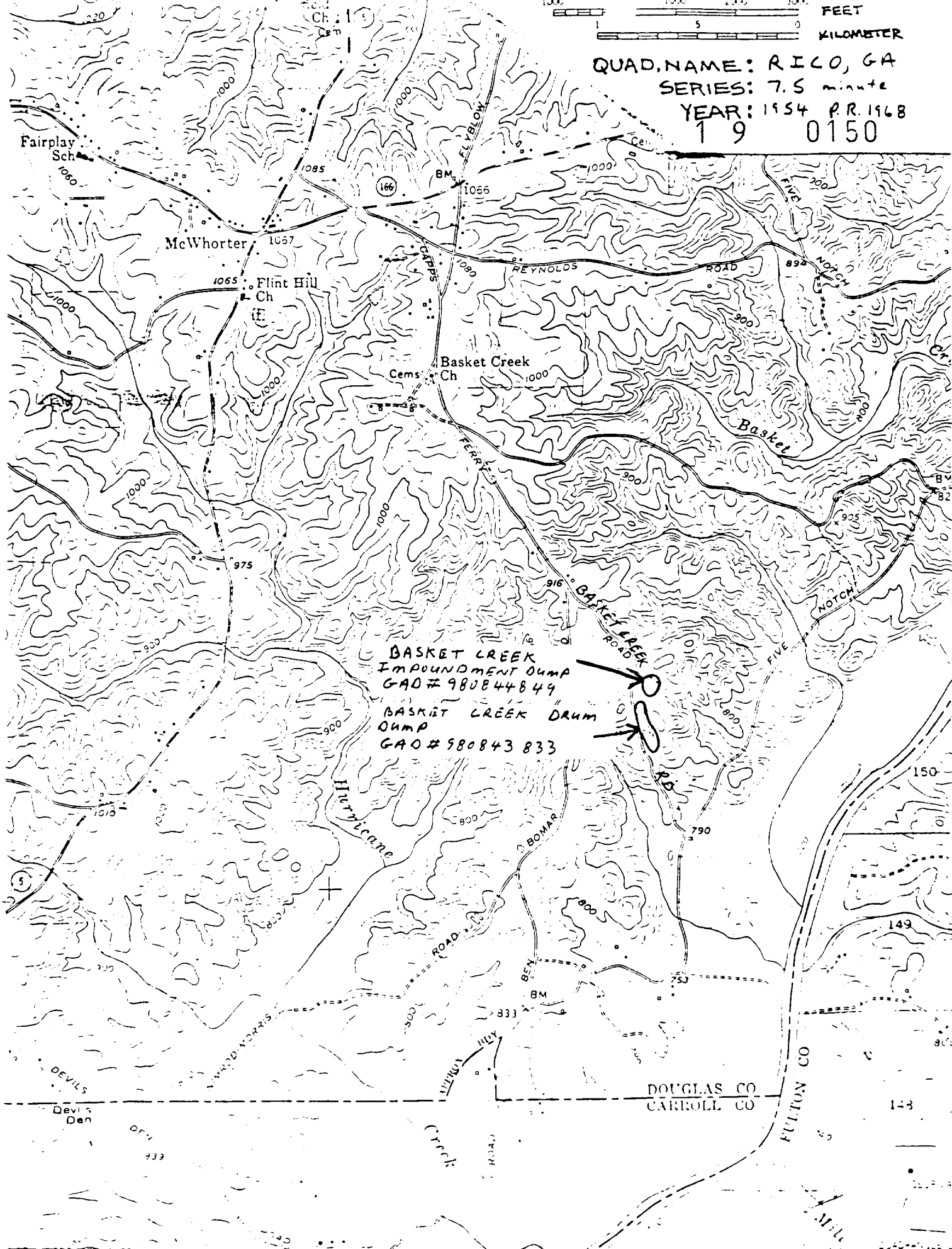
CSW/mcw006

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		IDENTIFICATION 01 STATE 02 SITE NUMBER GA D980844849	
II. SITE NAME AND LOCATION			
01 SITE NAME (Legal name or commonly known name)		02 STREET ROUTE NO. OR SPECIFIC LOCATION IDENTIFIER	
Basket Creek Burial Pit/Site No. 2		Basket Creek Road	
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY
Douglasville	GA	30135	Douglas
07 COUNTY CODE	08 FONG DIST		
097	6		
09 COORDINATES LATITUDE		LONGITUDE	
33° 35' 33.5"		84° 49' 01.0"	
10 DIRECTION TO SITE (If site is on a highway, give mile marker)			
1 mile south of Hwy. 166 and Hwy. 5 off Capps Ferry Road on Basket Creek Road.			
III. RESPONSIBLE PARTIES			
01 OWNER (Name)		02 STREET (Business mailing residential)	
Lee Wallace		4022 Boyd Road	
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Douglasville	GA	30134	404 377-7010
07 OPERATOR (Known and currently operating)		08 STREET (Business mailing residential)	
Same as above			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			()
13 TYPE OF OWNERSHIP			
<input checked="" type="checkbox"/> A PRIVATE <input type="checkbox"/> B FEDERAL <input type="checkbox"/> C STATE <input type="checkbox"/> D COUNTY <input type="checkbox"/> E MUNICIPAL <input type="checkbox"/> F OTHER <input type="checkbox"/> G UNKNOWN			
14 OWNER/OPERATOR NOTIFICATION (Check one)			
<input type="checkbox"/> A RCRA 9001 DATE RECEIVED MONTH YEAR <input type="checkbox"/> B UNCONTROLLED WASTE SITE (CERCLA 103) DATE RECEIVED MONTH YEAR <input checked="" type="checkbox"/> C NONE			
IV. CHARACTERIZATION OF POTENTIAL HAZARD			
01 ON-SITE INSPECTION		02 TYPE OF INSPECTION	
<input checked="" type="checkbox"/> YES DATE 01 14 85 <input type="checkbox"/> NO		<input type="checkbox"/> A EPA <input type="checkbox"/> B EPA CONTRACTOR <input checked="" type="checkbox"/> C STATE <input type="checkbox"/> D OTHER CONTRACTOR <input type="checkbox"/> E LOCAL HEALTH OFFICIAL <input type="checkbox"/> F OTHER	
CONTRACTOR NAME(S)			
03 SITE STATUS		04 YEARS OF OPERATION	
<input type="checkbox"/> A ACTIVE <input checked="" type="checkbox"/> B INACTIVE <input type="checkbox"/> C UNKNOWN		Unknown about 1975 <input checked="" type="checkbox"/> X UNKNOWN	
05 DESCRIPTION OF OBSERVABLE EVIDENCE OF POTENTIAL HAZARD			
Old impoundment containing unknown substances burned about 10 years ago. Shortly after the fire, the impoundment was backfilled. Drinking well within 75 feet.			
06 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND POPULATION			
Residential structures in the immediate area using well water for drinking purposes. The Chattahoochee River is less than one mile in the drainage from this site.			
V. PRIORITY ASSESSMENT			
07 PRIORITY FOR INSPECTION			
<input checked="" type="checkbox"/> A HIGH <input type="checkbox"/> B MEDIUM <input type="checkbox"/> C LOW <input type="checkbox"/> D NONE			
08 INFORMATION AVAILABLE FROM			
01 CONTACT		02 TELEPHONE NUMBER	
Mrs. Lee Wallace		Owner's Wife	
03 PERSONNEL		04 ORGANIZATION	05 TELEPHONE NUMBER
Steve Walker		DNR	404 656-7404
		EPD-RAU	01 23 85

 POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		I. IDENTIFICATION 01 STATE 02 SITE NUMBER GA D980844849	
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 <input checked="" type="checkbox"/> A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	Unknown From liquids in old impoundment. Drinking water well is about 75 feet from old impoundment.	02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> D. FIRE/EXPLOSIVE CONDITION 03 POPULATION POTENTIALLY AFFECTED	Unknown Impoundment reportedly caught fire about 1975.	02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input checked="" type="checkbox"/> ALLEGED
01 <input type="checkbox"/> E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED	Unknown Drinking water well is about 75 feet from old impoundment.	02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> I. POPULATION/RESIDUE INJURY 03 POPULATION POTENTIALLY AFFECTED		02 OBSERVED DATE 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED



QUAD.NAME: RICO, GA
SERIES: 7.5 minute
YEAR: 1954 P.R. 1968
19 0150



7

Only 1-1000

7

✓ 110000 7 1/2

71
61
51
41
31
21
11
01

250 100

5000

100 feet

Bar. 114

Impounded near
Ave. Thompson
450' x 100' Area
Kaiser Power

75611

19 0151

100



1 9

0152

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET S.W.

ATLANTA GEORGIA 30334

Commissioner

J. LEONARD LEDBETTER

Division Director

TRIP REPORT

March 13, 1985

Site Names and

Location: Basket Creek Road Impoundment
Basket Creek Road Drum
Wallace Lake Road Dump
Douglas County, Georgia 30134

Trip By: Jeff Williams *JWS*
Environmental Specialist
Remedial Action Unit

Accompanied By: None

Date of Trip: March 4, 1985, 10:00 a.m.

Officials Contacted: Mr. Douglas Daniell, Sanitarian
Douglas County Health Department
6770 Selman Drive
Douglasville, Georgia 30134
(404)949-1970

Mr. Clyde Walker, Douglas County DNR Ranger
P. O. Box 382
Douglasville, Georgia 30134
(404)942-4938
GIST - 259-7438

Reference: Site Follow-up regarding Lee Wallace disposal sites in Douglas County.

Comments: The purpose of this trip was to verify and sketch the exact disposal locations of these three former dumpsites in Douglas County. There are two disposal sites located on Basket Creek Road, formerly named Old Capps Ferry Road.

The first site consists of an old abandoned impoundment located at 7768 Basket Creek Road. The residents at this address (Green Trailer), have a thirty-six inch bored well that is located about 75 to 100 feet from the old impoundment area (Photographs). According to Mr. Clyde Walker of the Douglas County Game and Fish Division, the impoundment area was approximately five to eight feet in depth and consisted of a $\frac{1}{4}$ acre area. According to Mr. Walker, liquid waste from Young Refinery in Douglasville, were poured into this unlined pond. Approximately 10 years ago (1975) the liquids in the impoundment caught fire and were subsequently covered over with fill material. It is unknown if residual waste is contaminating the local drinking water wells in the area. Vegetation in this area is very sparse and consists mostly of briar patches (Photographs, Sketch Site 1).

The second site on Basket Creek Road is located approximately 1,500 feet south of the impoundment area. This site consists of a relatively open valley of young pine trees that is bordered on the north and south by hardwood trees (Sketch Site #2). According to Mr. Doug Daniell, this site was once a steep embankment in which approximately eighty fifty-five gallon drums were dumped and subsequently covered with fill material. Sample analysis of the wastes by Georgia EPD personnel in May 1976 revealed the presence of ortho chlorophenol, actone, tetrachlorethane and chloroform. There is evidence of buried drums still remaining at this site. Several residences in the area use ground water for domestic purposes.

The third site, Wallace Lake Road dump is located at the end of Wallace Lake Road in Douglas County. Formerly, this site consisted of a series of disposal trenches that allegedly received industrial wastes from Young Refinery Corporation and Arrivec Chemicals Company of Douglasville (Site Sketch 3). This site was closed in late 1969 - early 1970 after the Douglas County Sanitary Landfill was opened. This site has since been leveled and filled and is now used as a horse pasture.

All residents living in the immediate area obtain their drinking water from the municipal supplies of Douglas County. There are no private wells within the area according to Mr. Doug Daniell of the Douglas County Health Department.

Conclusions: Based on the file review and officials contacted, it is believed that hazardous materials were accepted at all three subject sites.

Recommendations and

Follow-up: Conduct Preliminary Assessments on all three subject sites and follow-up with possible site inspections.

Photographs: Eleven Polaroids

Reviewed By: *F. M. Allred for J. I. Lurion*

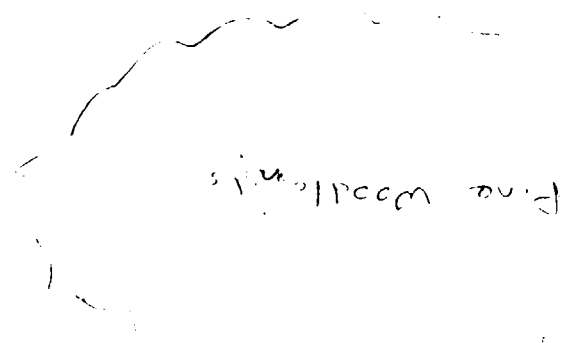
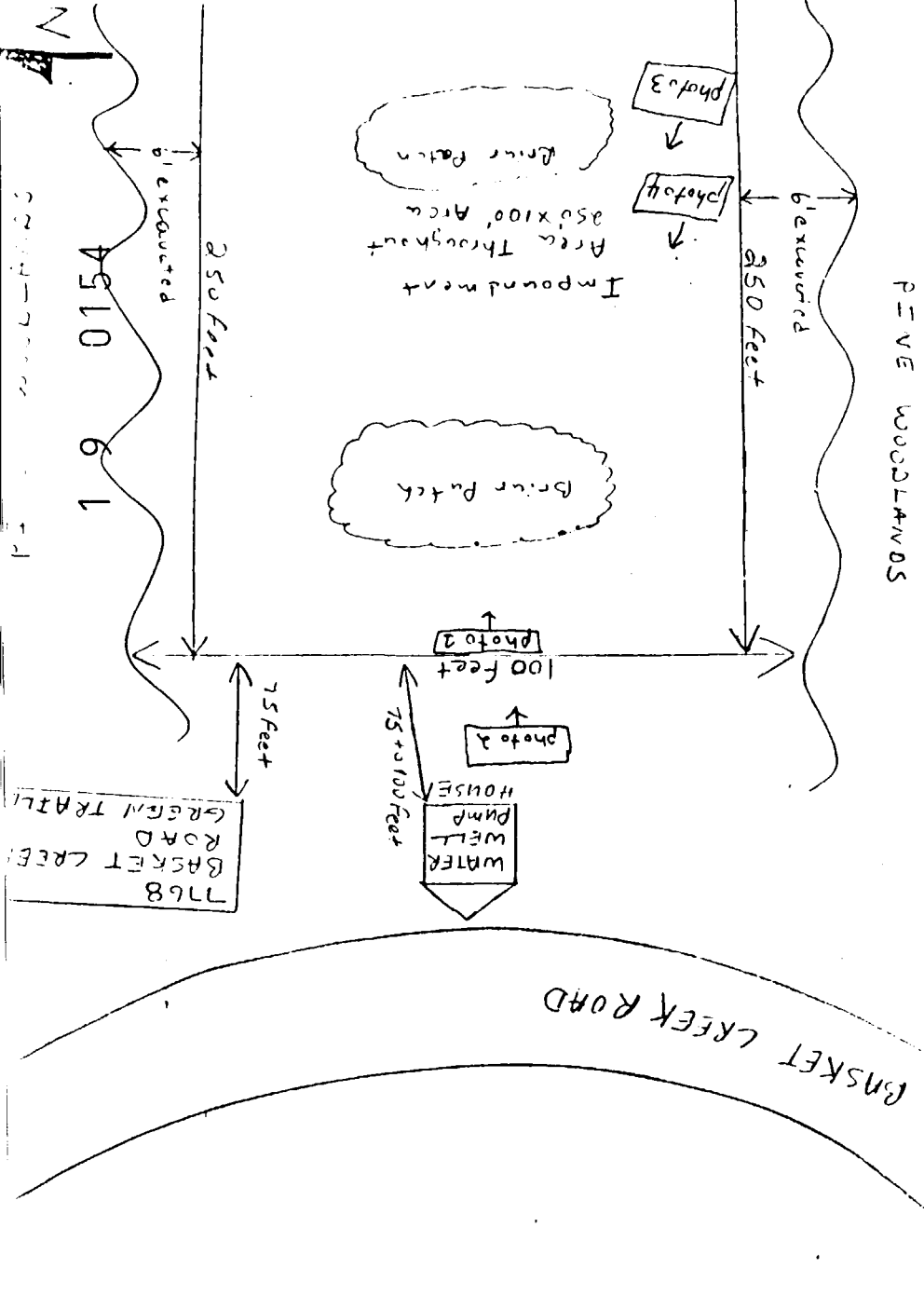
Attachments: Site Sketchs #1, #2, and #3
USGS 7.5 minute Quadrangle map of Site Locations

JMW/mcw009

cc: John D. Taylor, Jr.

File: Wallace Lake Road (B)
Basket Creek Road Drum Dump (B)
Basket Creek Road Impoundment (B)

BASKET CREEK ROAD
SITE SKETCH #1
IMPOUNDMENT



UP
DOWN

19 0154

19 0154

6. GET CREEK ROAD -
SITE SKETCH AND
DUMP DUMP

600-700 foot - length of DUMP DUMP FIELD

HARDWOOD OAK TREES 19 0155

OLD SICK LOGGING ROAD

photo 5 photo 6

VALLEY FLOOR

Grass patches

Grass patches

probable area of more buried drums

OLD TIRES AND DRUMS PARTIALLY COVERED BY FILL

photo 9

OLD TIRES AND DRUMS COVERED BY FILL AND PARTIALLY BURIED IN HILLSIDE

photo 8

photo 7

EMPTY DRUMS

photo 15

up slope to Top of Hill

up slope

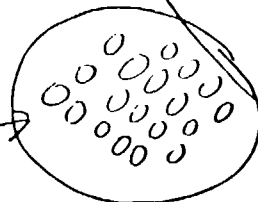
LOW DUMP

5

12 SITE SKETCHES
Douglas Co.

19 0156

OLD
TIRE DUMP



RAIL TRACK

WOODED

E

HILL SIDE

OLD TRENCH DISPOSAL AREA
NOW COVERED WITH FILL

Entire Area is now
levelled as a result
of fill material
being applied to old dump site

UNPAVED ROAD

Photo 10

END OF WALLACE LAKE RD.

S

OLD PIT
WHERE OPEN
BURIAL WAS
PRACTICED

Photo 11

WOODED

WOODED

YEAR: 1954
SERIES: 7.5 minute

QUAD NAME: CAMBELLTON, CA

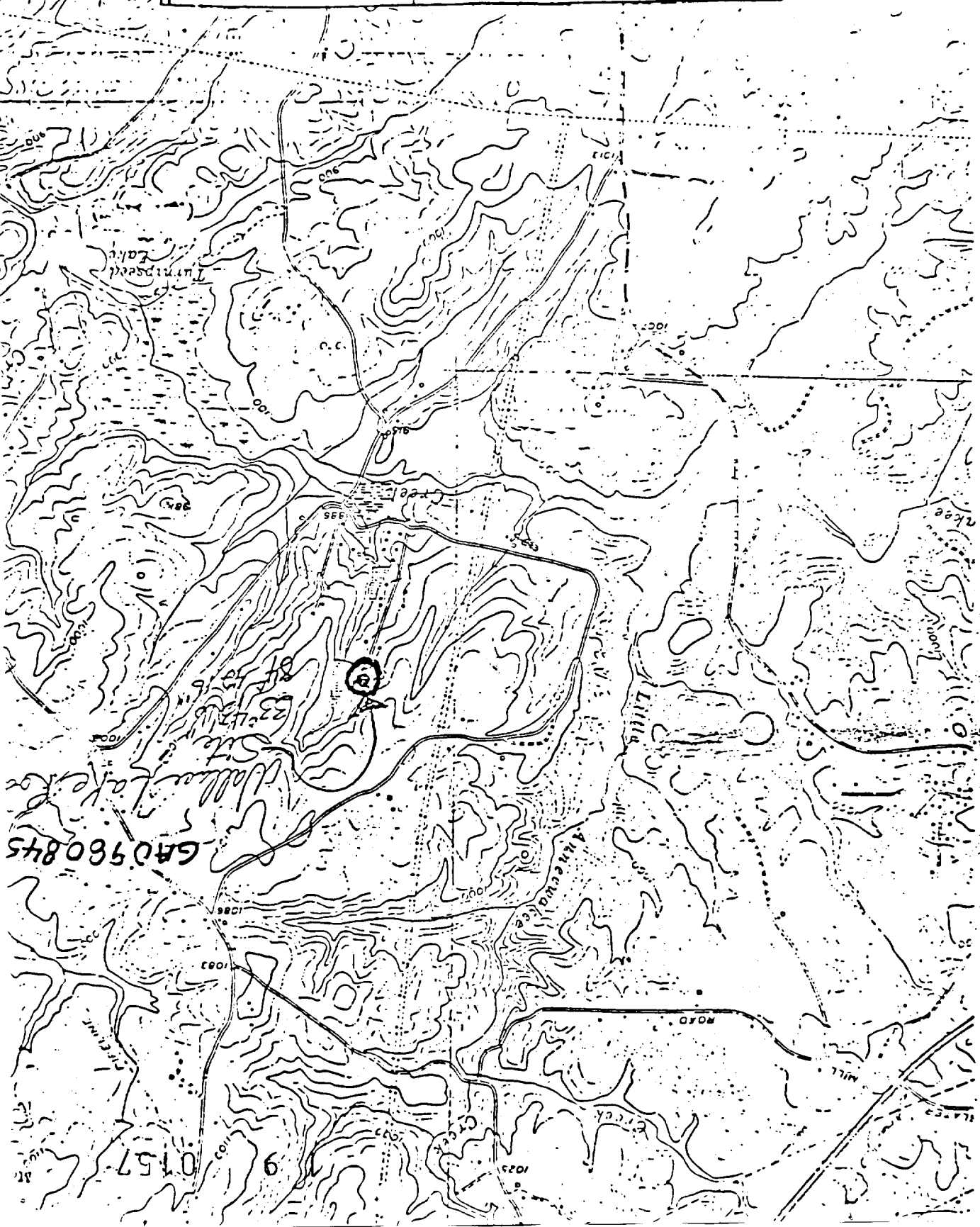
KILOMETER

FEET

MILE

SCALE

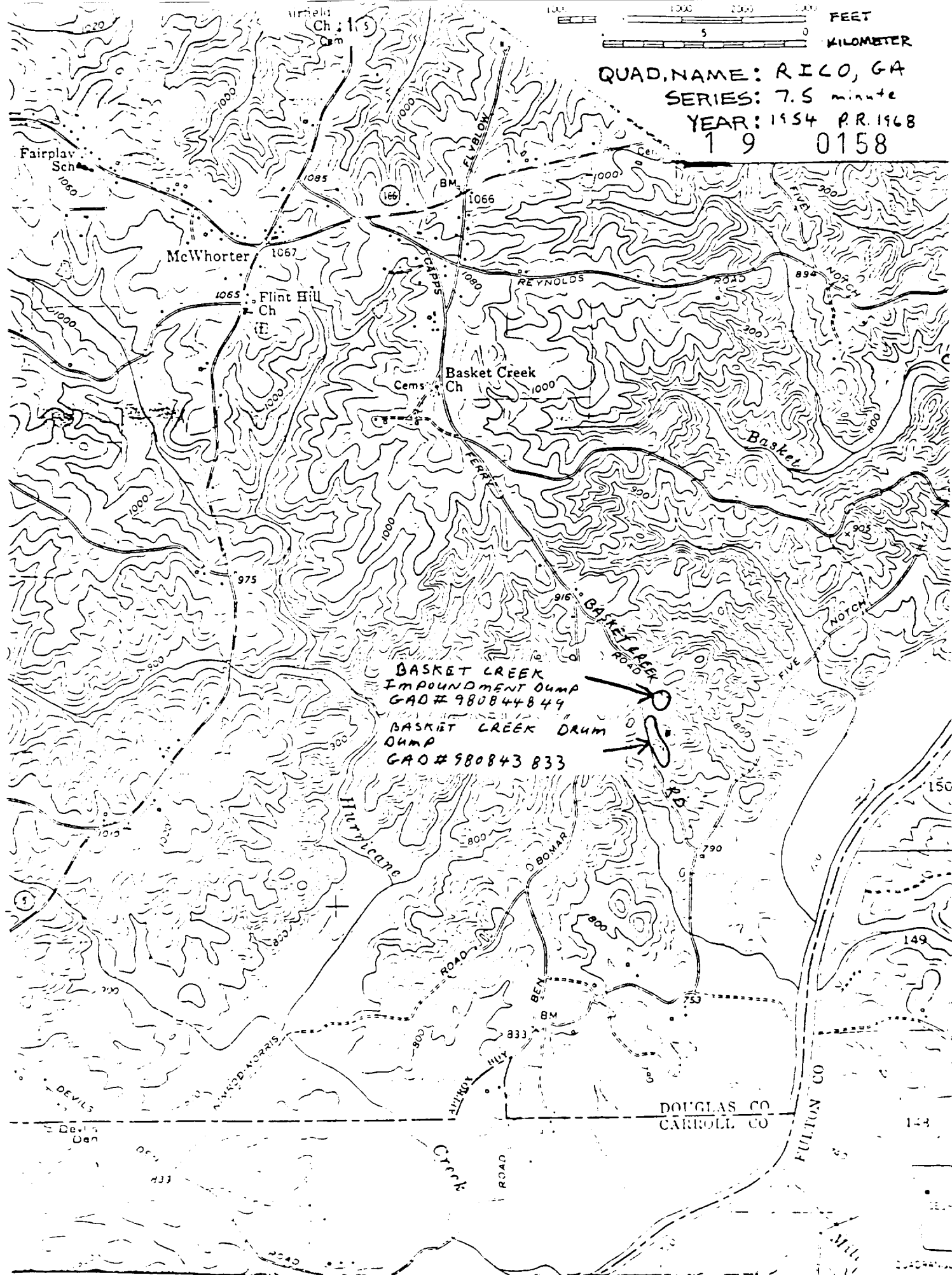
121



GA0960845

0157

QUAD NAME: RICO, GA
SERIES: 7.5 minute
YEAR: 1954 P.R. 1968
1 9 0158





SEE 1053

County Name Douglas
 Picture No. 1 of 11
 Site Name Basket Creek Impoundment
 Date 3-4-85 Weather Clear
 Direction Facing Southeast
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph showing the
length and width of old
impoundment area. Note the
Other sparse vegetation where
the old impoundment was.



County Name Douglas
 Picture No. 2 of 11
 Site Name Basket Creek Impoundment Dam
 Date 3-4-85 Weather Clear
 Direction Facing Southeast
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of
old Impoundment area from
the residence of 7768
Other Basket Creek Road.
Residence is approximately
40 to 50 feet from to the
left of this photo.



15' 20' 110
100' 100' 100'

County Name Douglas
 Picture No. 3 of 11
 Site Name Basket Creek Impoundment Dam
 Date 3-4-85 Weather Clear
 Direction Facing Northwest
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph from the
back of the impoundment area.
Basket Creek Rd is located along
Other Pine Tree Line.

Little White House in upper right
of photo is pump house for
36" bored well. Well is
approx 100-200' from here.



County Name Douglas
 Picture No. 4 of 11
 Site Name Basket Creek Impoundment Dam
 Date 3-4-85 Weather Clear
 Direction Facing Northwest
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of the
Residence and pump house
from the back of the old
Other impoundment area.
site slopes to the
Southeast



County Name Douglas
 Picture No. 5 of 11
 Site Name Basket Creek Drum Dump
 Date 2-21-85 Weather Clear
 Direction Facing North East
 Photographer Mike Allred
 Program Remedial Actions Unit
 Explanation Photograph from Basket
Creek Road looking at the front
area of the drum dump
 Other Old Logging Road runs thru
the valley to the top of the
hill in upper part of photograph.
Note tree that is blocking
entrance to the front area
of the site. main dumpsite
occurs on the right side of
this road in the photograph



County Name Douglas
 Picture No. 6 of 11
 Site Name Basket Creek Drum Dump
 Date 2-21-85 Weather Clear
 Direction Facing East
 Photographer Mike Allred
 Program Remedial Actions Unit
 Explanation Close up photograph
of pine tree field which
slopes to the bottom of
 Other the valley floor.
Brown area in middle of
photograph is a Briar patch
that has received fill
material and may contain
buried drums.



County Name Douglas
 Picture No. 7 of 11
 Site Name Basket Creek Drum Dump
 Date 3-4-85 Weather Clear
 Direction Facing East
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of 3
empty crushed drums that
are seen from Basket Creek
Other Road. This photograph
is taken at the southern
end of the drum dump.
The slope in this photograph
continues to steepen as you
encounter the valley floor.



County Name Douglas
 Picture No. 8 of 11
 Site Name Basket Creek Drum Du.
 Date 3-4-85 Weather Clear
 Direction Facing North
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of tires
and some rusted drums
that are lying at the bott
Other of the valley floor.
Hill side embankment is th
result of cover material
and drum burial



11/12 11/13

County Name Douglas
 Picture No. 9 of 11
 Site Name Basket Creek Drum De
 Date 3-4-85 Weather Clear
 Direction Facing North West
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of
another fire dump and
rusty drums that are
Other lying in this intermittent
drainage area.

County Name _____
 Picture No. _____ of _____
 Site Name _____
 Date _____ Weather _____
 Direction Facing _____
 Photographer _____
 Program _____
 Explanation _____

Other _____



115 Pin

County Name Douglas
 Picture No. 10 of 11
 Site Name Wallace Lake Rd Dump
 Date 3-4-85 Weather Clear
 Direction Facing West
 Photographer Jeff Williams
 Program Remedial Actions Un.
 Explanation Photograph of
old trench disposal area
that was used to discard
Other waste. Site has since
been leveled and turned
into a horse pasture
photograph is from unpaved
road that bisects the
horse pasture.



County Name Douglas
 Picture No. 11 of 11
 Site Name Wallace Lake Rd Dump
 Date 3-4-85 Weather Clear
 Direction Facing West
 Photographer Jeff Williams
 Program Remedial Actions Un.
 Explanation Photograph of
unconsolidated soils that
contained tar like residue
Other on the surface. This
area occurs just outside
of the fenced pasture
on the western margins of
the trees. This area is
presumed to be an old pit
where burning was once
practiced.

SITE INSPECTION REPORT
BASKET CREEK BURIED PIT/SITE 2
GAD980844849

Charles P. Evans *CPE*
Georgia Environmental Protection Division
August 1986

Reviewed By: *Mike Allred* Date: *9-11-86*

BASKET CREEK BURIED PIT/SITE 2

SITE INVESTIGATION REPORT

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BASKET CREEK BURIED PIT/SITE 2

SITE INVESTIGATION REPORT

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1.0 EXECUTIVE SUMMARY

Waste oil and solvents were illegally disposed by Young Refinery Corporation of Douglasville, Georgia in 1976 on a parcel of land owned by Mr. Lee Wallace, now deceased. The wastes disposed on the site consist of waste oil and a variety of solvents. The most predominant of these are methyl ethyl ketone, xylene, toluene, and acetone. The disposal was stopped by the Georgia EPD when they were made aware of it. Details of the incident are incomplete, however, it is suspected that the waste was transported to the site in drums where the contents of the drums were emptied into the impoundment and the drums were reclaimed. The impoundment was built by damming a natural drainage area. The waste poured into the impoundment percolated into the soil or evaporated. The impoundment was later backfilled with dirt. The topography of the area concentrates the surface drainage onto the disposal area. The site is located in a rural area of Douglas County. There are at least a dozen homes within a radius of one mile of the site that depend on ground water for drinking water.

Samples collected at the site included: 1) a background soil sample, 2) a downgradient soil sample, 3) a composite soil sample from the waste disposal area, 4) a water sample from the nearest well, and 5) a water sample from a spring 600 feet downgradient of the site. No constituent of the wastes was found in the drinking water well or outside the waste disposal area.

2.0 BACKGROUND

2.1 Location

The site is located east of Basket Creek Road, Douglasville, Georgia, approximately 0.4 mile from the intersection of Capps Road and Basket Creek Road (Appendix A, Figure 1).

2.2 Site Layout

The site consists of a backfilled impoundment originally formed by constructing a dam across a natural drainage area. The site lies in a rural area of Douglas County, however, population growth in the area is expected to continue. A mobile home is now located northwest of the disposal area. Water is supplied to this and other residences in the area by individual wells. Surface water flows across the disposal area toward the southwest and into an unnamed creek. Old diversion ditches on the north and south side of the impoundment appear to have re-routed the surface water from higher ground around the impoundment.

2.3 Ownership History

The impoundment is located on or near the property line bordering property owned by Mrs. Lee Wallace, 4022 Boyd Road, Douglasville, Georgia 30145, (404)377-7010 and Mrs. Greg W. Parker, 7768 Basket Creek Road, Douglasville, Georgia 30135, (404)489-1281. Neither owner could adequately describe the exact location of the property boundary. A survey of the properties may be necessary to determine the exact location of the property line in relation to the disposal area. Mr. Lee Wallace was named in past EPD enforcement

actions; therefore, Mrs. Lee Wallace, the former owner's widow, is assumed to hold title to the Wallace property.

2.4 Site Use History

The land on which the disposal area lies is undeveloped. The disposal area is located on the northern boundary of a 10.8 acre tract of land owned by Mrs. Lee Wallace.

2.5 Permit and Regulatory History

In March of 1976 the Douglas County Sanitarian notified the Georgia EPD of illegal disposal activities on the subject site. Upon investigation, it was discovered that an unpermitted disposal operation was taking place on Mr. Wallace's property. Due to the nature of the wastes, an emergency order was issued by the EPD requiring Dr. C. B. Young to cease removing the waste from his facility in Douglasville and disposing of it on Mr. Wallace's property. Penalties were imposed on the waste hauler Mr. B. B. Hulsey and the property owner, Mr. Lee Wallace, for improper disposal. Legal action against the waste generator, Young Refining Corporation was initiated by the State Attorney General's office.

2.6 Remedial Actions to Date

The impoundment was closed by backfilling.

2.7 Summary Trip Report

An initial reconnaissance of the area was conducted September 25, 1985. The

location of the former impoundment was confirmed. The property lies southeast of a parcel of property and a mobile home owned by Mrs. Greg Parker. Mrs. Parker's water is supplied by a well located about 200 feet west of the old disposal area. A spring was located about 600 feet from the disposal area at the base of a drainage route from the site. The spring feeds into an unnamed creek that empties into the Chattahoochee River. Several rusting and empty drums were found below the impounded area. The sampling team collected three soil samples during the site inspection (See Appendix A, Figure 2 for all sampling locations): 1) a background soil sample (S-1), 2) a soil sample in the drainage area of the old impoundment at a depth of three feet below the surface (S-2), and a composite soil sample from the waste disposal area (S-3). The soil obtained from the waste area was collected at a depth of 18-48 inches below the surface. The odor of toluene was present while drilling in this area. The soil obtained from the disposal area was dark colored as though it had been mixed with used motor oil. At a depth of about six feet, red clay was once again encountered. Two water samples were obtained during the site inspection. The spring downgradient of the site (W-1) and the well to the west of the disposal area (W-2).

3.0 ENVIRONMENTAL SETTING

3.1 Topography

The site lies in the northern Piedmont physiographic province of the state. The surrounding terrain is characterized by rolling hills. The disposal area is in a natural drainage area. The land descends steadily to an unnamed stream which drains into the Chattahoochee River. Surface drainage across the site will be channeled into the stream down-slope.

3.2 Surface Waters

The closest surface water is an intermittent stream approximately 650 feet southeast of the disposal area. A spring downgradient of the site feeds this stream.

3.3 Geology and Soils

The soil observed at the site is a dense red soil of the Madison soil series. This soil is characterized by a low infiltration rate (1). An outcrop of Biotite-Quartz-Plagioclase gneiss was observed down-slope of the site in an eroded area. Similar rock is expected to underlie the site. The Chattahoochee-Blairs Bridge fault lies about 1,200 feet to the northwest of the site (2).

3.4 Ground Water

The surficial aquifer is the only water bearing formation thought to be affected. The Parker's well, a 75 foot deep bored well, is completed in this

aquifer. This aquifer likely feeds the spring to the southeast of the site. Groundwater flow is believed to follow the topography, traveling away from the Parker's well and in the direction of the spring. The effect that pumping of the Parker's well has on ground water flow is unknown. Deeper wells in the area may depend on water bearing fractures in rock for their source of water. These flow patterns may be highly complex and are as yet not defined. Thus far no waste constituents have been found in ground water around the site.

3.5 Climate and Meteorology

The mean annual precipitation in the area is 48 inches per year. The mean annual lake evaporation is 41 inches per year. December through January are the wettest months of the year and September through October the dryest. Temperatures vary from highs approaching 100°F in the late summer to lows in the teens in the winter. A low at or below freezing can be expected 80 days per year (3).

3.6 Land Use

The predominant use of land surrounding the site is for single family residences and farmland. The trend is away from agricultural and toward residential development.

3.7 Population Distribution

Population estimates were made by counting the number of residences on a 7.5 minute topographic map and multiplying by 3,8 (4). Population estimates within

one, two and three mile radii are 57, 395, and 809, respectively.

3.8 Water Supply

The well closest to the disposal area belongs to Greg Parker; it is a bored 75 foot deep well. The well is located about 100 feet to the west of the waste disposal area. The well is expected to be upgradient of the disposal area, however, it is unknown how heavy pumping of the well will affect ground water flow in the area. A spring lies southeast and down-slope of the site. It is possible that leachate will travel toward the spring. The water from this spring flows into an unnamed creek and then into the Chattahoochee River.

3.9 Critical Environments

None

4.0 WASTE TYPES AND QUANTITIES

4.1 Waste Types

The waste is believed to have been waste oil contaminated with a variety of chlorinated hydrocarbons and solvents.

4.2 Waste Disposal Methods and Locations

The waste was disposed by emptying drums into an unlined impoundment. The disposal area is adjacent to and south of 7768 Basket Creek Road, Douglasville, Georgia 30135, approximately 0.4 mile south of the intersection of Capps Road and Basket Creek Road and 200 feet east of Basket Creek Road.

4.3 Waste Quantities

The exact quantity of waste disposed at this location is unknown. However, at least 80 fifty-five gallon drums of waste oil containing solvents were disposed at this location in March of 1976 (See Appendix C, Attachment 6). The size of the impoundment is estimated at 417 cubic yards.

5.1 Summary

There is no evidence of migration of the wastes from the site. The background soil sample, downgradient soil sample, well sample and spring sample were uncontaminated. The only sample found to be contaminated was sample S-3, the composite soil sample from the waste disposal area (See Appendix B).

5.2 Quality Assurance Review

All sampling and subsequent laboratory analyses were carried out in accordance with QA/QC procedures set forth in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste" (5).

6.0 TOXICOLOGICAL/CHEMICAL CHARACTERISTICS

The following substances were identified in samples collected at the site (6):

acetone - oral LD₅₀ rat: 9,750 mg/kg; tolerance - 750 ppm in air; dangerous due to fire and explosion hazard; can react vigorously with oxidizing material.

benzene - lowest toxic dose reported (human) - 130 mg/kg; lowest toxic dose reported (rat) - 52 mg/kg; tolerance 10 ppm in air; combustible, flash point 12°F.

2-butoxy ethanol - oral LD₅₀ (rat) - 790 mg/kg; tolerance - 25 ppm skin; when heated to decomposition it emits acrid smoke and fumes.

bis (2-ethylhexyl) phthalate - oral, lowest reported toxic dose - 143 mg/kg; tolerance - 5 mg/cubic meter in air; an experimental teratogen and possible human carcinogen.

cadmium - inhalation, lowest published toxic concentration (human) - 1,500 µg/m³; tolerance - 40 µg/m³ in air; an experimental carcinogen.

chlorobenzene - oral LD₅₀ (rat) - 2,910 mg/kg; tolerance - 75 ppm in air.

1,2-dichlorobenzene - oral LD₅₀ (rat) - 500 mg/kg; tolerance - 50 ppm in air; can react vigorously with oxidizing materials.

dimethyl phthalate - oral LD₅₀ - 6,900 mg/kg; tolerance - 5 mg/m³ in air; an experimental teratogen; can react with oxidizing materials.

ethyl benzene - oral LD₅₀ (rat) - 3,500 mg/kg; tolerance - 100 ppm in air; dangerous when exposed to heat or flame; can react violently with oxidizing material.

lead - oral, lowest published toxic concentration (rat) - 790 mg/kg; tolerance - 0.15 mg/m³ in air.

1-ethyl-2-methyl benzene - oral, lowest lethal dose reported (rat) 5,000 mg/kg; tolerance - 100 mg/kg in air; an eye irritant.

methyl ethyl ketone - oral LD₅₀ (rat) - 3,400 mg/kg; tolerance - 200 ppm in air; combustible, flash point 22°F.

methyl isobutyl ketone - oral, lowest toxic dose reported (human) - 480 mg/kg; tolerance - 0.2 ppm in air; when heated to decomposition it emits acrid smoke and fumes.

naphthalene - oral LD₅₀ (man) - 1,000 mg/kg; tolerance - 10 ppm in air; reacts with oxidizing materials; reacts violently with chromium trioxide.

PCB's - known carcinogen; dangerous when heated to decomposition, they emit highly toxic fumes.

phenol - oral, lowest lethal dose reported - 140 mg/kg; tolerance - 5 ppm skin; when heated it emits toxic fumes, can react with oxidizing materials.

tetrachloroethene - oral LD₅₀ (rat) - 200 mg/kg; tolerance - 5 ppm in air; when heated to decomposition it emits toxic fumes of chlorine.

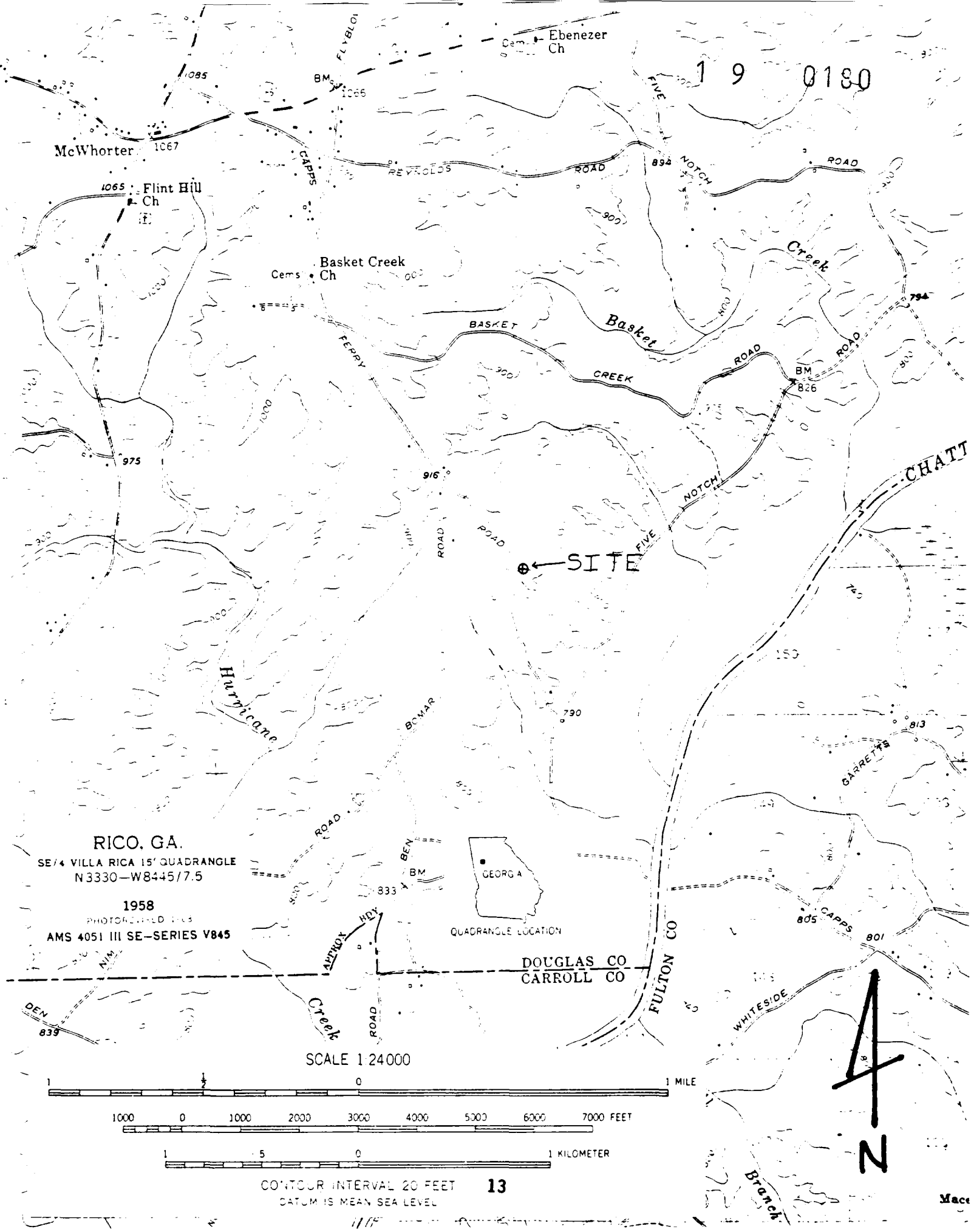
toluene - oral LD₅₀ (rat) - 5,000 mg/kg; LD₅₀ (inhalation) lowest reported toxic dose (human) - 200 ppm; tolerance - 100 ppm. in air; when heated it emits irritating fumes; can react vigorously with oxidizing materials.

trichloroethylene - lowest toxic dose reported (human) - oral, 7 g/kg; oral LD₅₀ (rat) - 4,920 mg/kg; tolerance - 50 ppm in air; flash point 89.60°F.

1,2,3, trimethyl benzene - oral, lowest lethal dose reported (rat) - 5,000 mg/kg; tolerance - 25 mg/kg in air; when heated to decomposition it emits acrid smoke and fumes.

xylene - (total) - oral LD₅₀ (rat) - 4,300 mg/kg; tolerance - 100 ppm in air; when heated to decomposition it emits acrid smoke and fumes.

i



19 0130

RICO, GA.

SE 1/4 VILLA RICA 15' QUADRANGLE
N3330-W8445/7.5

1958

PHOTOGRAPHED BY

AMS 4051 III SE-SERIES V845

GEORGIA

QUADRANGLE LOCATION

DOUGLAS CO
CARROLL CO

SCALE 1:24000

1 MILE

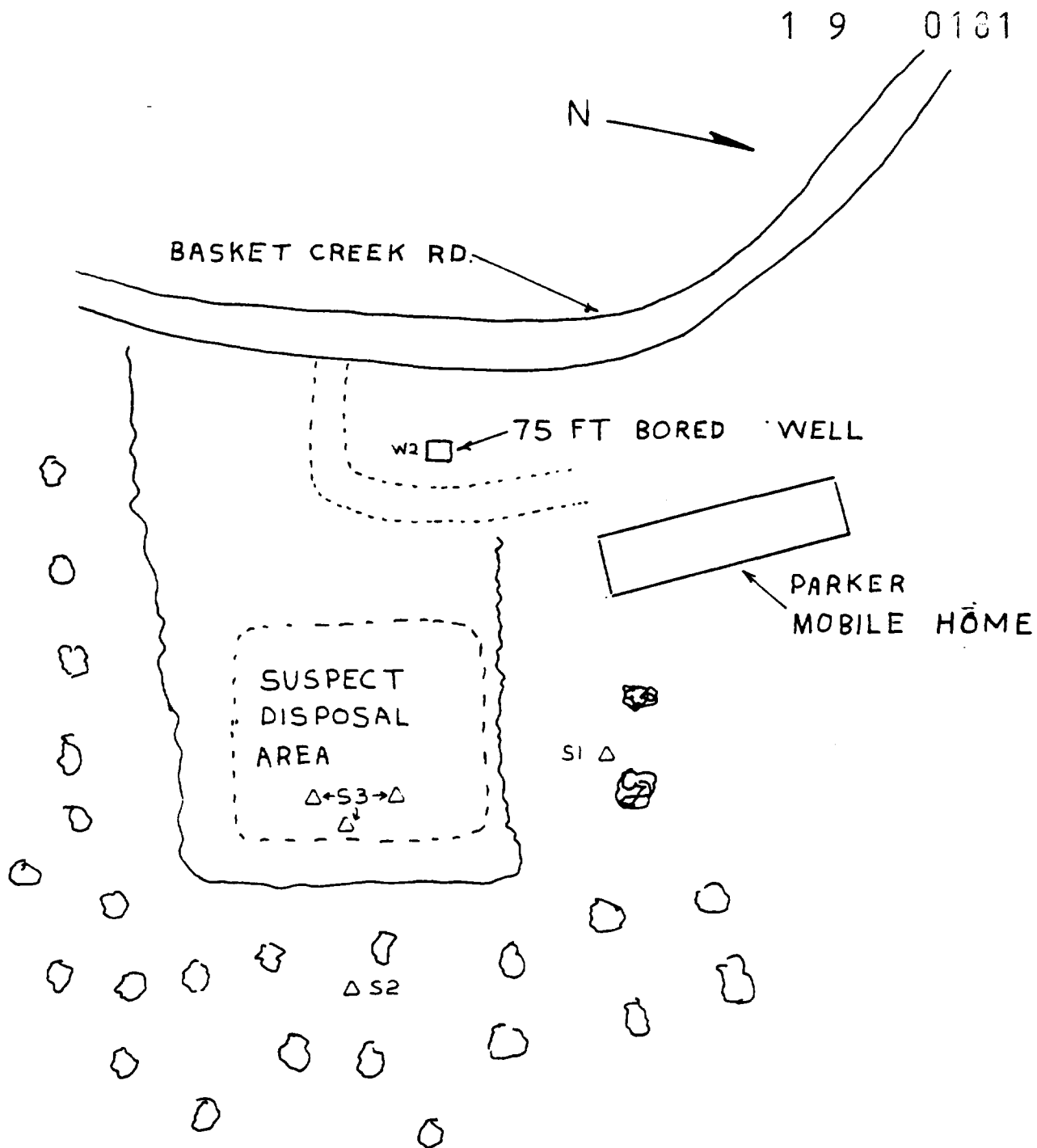
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

13

Mace



BASKET CREEK BURIED PIT / SITE 2
 SITE SKETCH
 NOT TO SCALE

APPENDIX A

ATLANTA, GEORGIA

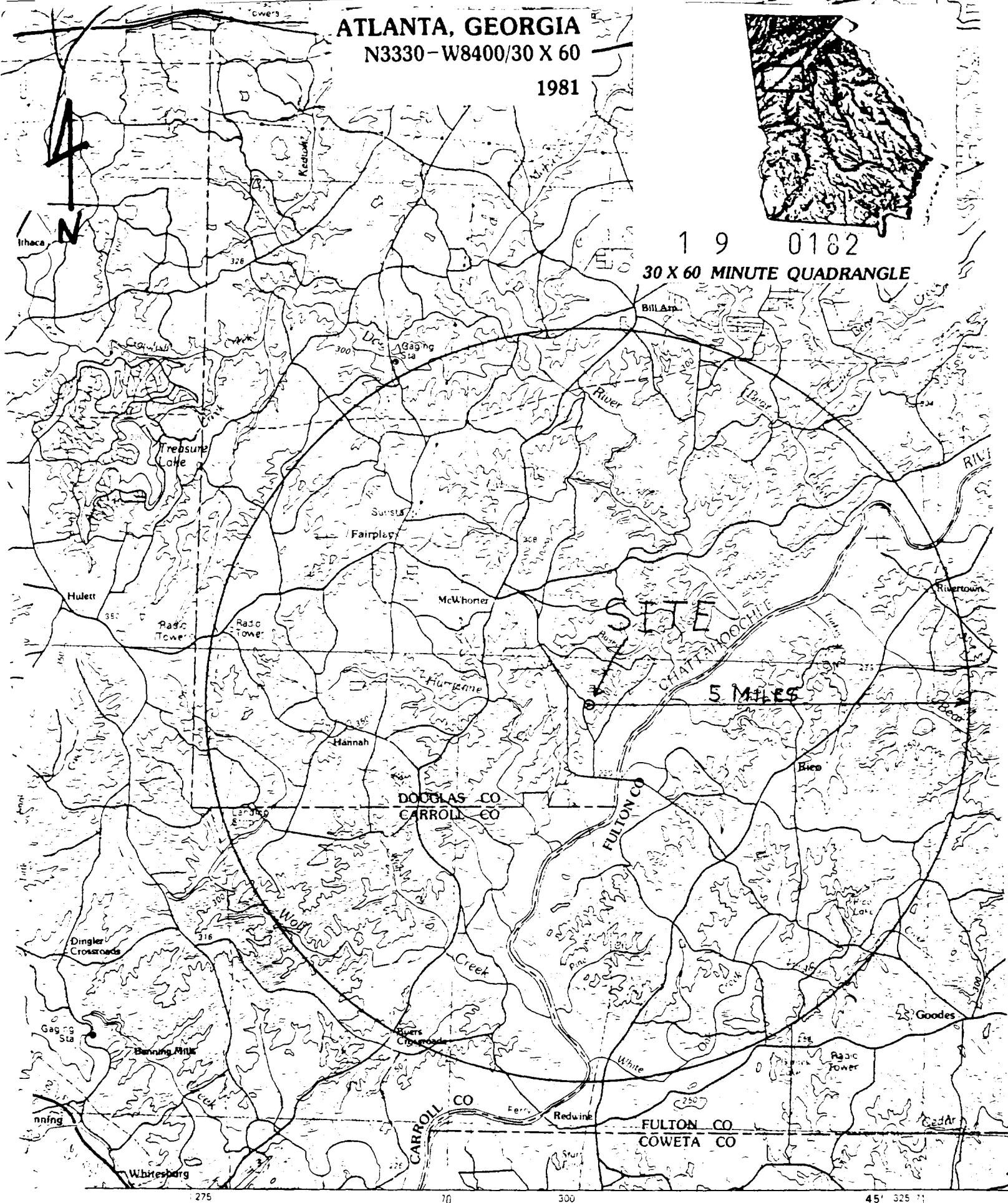
N3330 - W8400/30 X 60

1981



19 0182

30 X 60 MINUTE QUADRANGLE



APPENDIX B

1 9 0163

LABORATORY REPORT

19 0185

SAMPLE NO. 10/9/85 PROJECT: BASKET CREEK RA. COLLECTOR: CHARLES P. LUNN
 DATE: OCT 8, 1985 PROJECT: BURLET PIT / SITE 2

HW LOG NO.

1554

LABEL

W-1

See P

E
 D
 DE
 D
 D
 Y: Reed
Cross
Harold Sanford
 LABORATORY MANAGER

DATE: 11-20-85

ANALYSTS

LAB NO.

HW 1554

Volatile Organic Compounds u/g <1
 PCB'S u/g <0.3

Base Neutral Compounds u/g <10
 Acid Extractable Compounds u/g <10

pH 6.6
 Ag Total u/g <10
 " " " <25
 " " " 10
 Cd " " <10
 Cr " " <10
 Pb " " <25
 Se " " <40

LAP

LABORATORY REPORT

1 9 0186

SAMPLE: BASKET CREEK RD. PROJECT: Buried PIT / SITE 2 COLLECTOR: CHARLES EVANS
 DATE: OCT 9, 1985

HW LOG NO.

DATE: 10/5/85 LABEL: W-2
 TIME: 1300
 BY: R. Reed
 FOR: Evans
Harold Sanford
 LABORATORY MANAGER

1555

W-2

WELL
WATER

DATE: 11-20-85

ANALYSTS

LAB NO.

HW1599

Volatile Organic Compounds u/l <1

P.C.B.'s u/l <0.3

Base Neutral Compounds u/l <10

Acid Extractable Compounds u/l <10

pH 7.1

Total u/l <10

"

"

<25

Ba " " 20

Cd " " <10

Cr " " <10

Pb " " <25

Se " " <40

1

APPENDIX C

1 9 0167

FILE SUMMARY
YOUNG REFINERY, INC.
DOUGLASVILLE, GA., DOUGLAS COUNTY

- 2/24/76 - Routine inspection of plant in response to information from Alabama Solid Waste Control Unit that wastes were being transported into Georgia for disposal. During inspection Charles Young stated 250 drums of waste oil, alcohols and greases were involved in the operation. All were being burned and none dumped.
- 3/17/76 - Dumping incident at Lee Wallace - Basket Creek Disposal Site. Douglas Danniell, Douglas County Sanitarian, reported it, and identified the hauler, Bart Hulsey, through license plates. Dr. Young called the Sanitarian and admitted the wastes were his. Dr. Young stated to the Sanitarian that at the time he contracted with Mr. Hulsey he did not know where the waste would be dumped.
- 3/18/76 - Issuance of Complaint Investigation form by Morgan Cantrell and dispatching of Jim Benson and Dan Hull to take samples at the site.
- 3/18/76 - Trip Report of Dan Hull verifying that Eighty 55 gallon drums were partially covered with earth and 80 drums were on the trailer. Two half-gallon samples were taken from two different drums.
- 3/18/76 - Issuance of Land Protection Branch Chain of Custody form to accompany the samples.
- 3/19/76 - Letter to Clyde Fehn from Jack Honeycutt, Solid Waste Control Unit, Alabama, stating he would check to see whether any waste from Young was still at Borden Spring, Alabama. He furnished a letter dated June 5, 1975, from Dr. C. B. Young stating the wastes stored at Borden Springs, Alabama were polymerized products in kerosene, benzene and hydrocarbon solvents; and aromatic products in a solution of benzene or other aromatic products.
- 3/19/76 - Memo by Morgan Cantrell reporting that he inspected the site for covering and leaching. He detected the noxious odors 4 miles away from the site.
- 3/19/76 - Trip by Shirley Maxwell to Young Refinery. Dr. Young stated that the wastes were composed of unsaturated amines, polymers and glycols. They come from other companies, some located outside Georgia. He stated he allowed the wastes to be dumped because he believed the site was permitted. He could not recall the exact nature of the wastes or the companies. He agreed to have an analysis performed on the material. He would hold the eighty remaining drums on his property pending further instructions.
- 3/19/76 - Issuance of Emergency Order requiring Dr. C. B. Young to cease using or removing the subject waste and to supply a list of companies and waste components by March 22, 1976.

APPENDIX C

- 3/22/76 - Letter from Dr. C. B. Young stating that the waste was generated by a number of plants, and named Jennat Company as one. He named B. B. Hulsey and himself as haulers. He stated the waste contained polymerized products, amines, and alcohols; also, wetting agents and asphaltic and paraffinic materials.
- 3/22/76 - Memo by John Taylor detailing his conversation with Dr. Young wherein he advised that the wastes should not be mixed or combined since there was a possibility it would have to be transported to a hazardous waste incinerator for safe disposal.
- 3/23/76 - Telephone call from Jack Honeycutt of Alabama Solid Waste to Clyde Fehn reporting that two trucks were being loaded with drums containing the waste at Borden Springs, Alabama. There were, by his count, about 1,000 drums in the group.
- 4/08/76 - Trip by Shirley Maxwell to Young Refinery. Dr. Young said that all of the liquid waste held at his Borden Springs Alabama facility had been transported to Douglasville. It had been placed in two large storage tanks on his property and he had added the material from the eighty 55 gallon drums brought from the Wallace Site. He had also diluted the waste with his own oil and stated he was slowly incinerating this material in his process boilers. The volume was reported as 12421 gallons in tank #223, and 11531 gallons in tank #224. He was told to cease burning and to supply the required lists of companies and chemicals.
- 4/09/76 - Memo by Clyde Fehn stating that both men who did the sampling at the site suffered clinical effects by skin contact and inhalation. Dan Hull's shoes had to be thrown away.
- 4/12/76 - Meeting with Dr. Young in Mr. McCall's office. Dr. Young was informed he was in violation of the emergency order by burning and diluting the waste, and not submitting lists of companies and chemicals. Dr. Young denied that the waste had been incinerated. He agreed to have two samples of the diluted waste and two samples of the original waste analyzed by G.C.-Mass Spectrometer. He agreed to furnish a list of sources within two weeks of receipt of a letter of instruction.
- 4/15/76 - Letter to Dr. Young by Mr. McCall instructing him to have the samples analyzed, to supply the list of sources, and reminding him not to use or remove or dilute the wastes being held in the tanks. Two weeks from receipt of letter was given as a deadline.
- 4/22/76 - Memo by John Taylor stating that Dr. Young called to say he had contracted with McMillan Laboratories to run his samples. We would receive results within one week.
- 4/23/76 - Complaint by Mr. and Mrs. Wages about noxious gases coming from Young Refinery. They operate the Bilbo Motel.

- 4/23/76 - Night - Visits by Mr. McCall to Bilbo Motel and Young Refinery to
4/24/76 check for odors. He found none.
- 4/28/76 - Trip to Young Refinery by Shirley Maxwell and Joe Newton to seal the
two holding tanks.
- 4/28/76 - Letter from Dr. Young to Mr. McCall denying that he was burning the
material in the holding tanks.
- 4/29/76 - Report received by us from MacMillan Laboratories on the samples taken
by Dr. Young. Denial that any phenolic materials were present.
- 4/29/76 - Night - Complaint by Mr. Wages of noxious odors and arrival of
Mr. McCall at Bilbo Motel. Mr. McCall could only detect a faint
petro-chemical odor.
- 4/30/76 - Visit of Dr. Young to Mr. McCall. He stated he was looking for a
high temperature incinerator for disposal. He stated there is still
some waste in Alabama. He had not yet compiled his list of companies
but would send it in a few days. He denied having any phenolic
wastes in his waste stream. He denied that the waste had come from
a military installation or Federal facility.
- 5/02/76 - Complaint by Mrs. Wages to Mr. McCall about noxious odors coming
again from Young Refinery. He arrived on the scene and detected
only petro-chemical odors.
- 5/10/76 - Receipt of written analysis of the original waste samples taken
by Dan Hull of EPD and performed by EPA Surveillance Laboratory
stating that 51% of one sample was ortho chlorophenol, and that
all samples contained some.
- 5/14/76 - Letter to Lee Wallace by Carl Jones, Assistant Attorney General,
imposing penalty for illegal dumping.
- 5/19/76 - Memo from Marvin Lowry to Moses McCall stating that Air Quality
Control cannot approve burning the subject waste in Young's process
boiler.
- 5/20/76 - Letter to Dr. Young by Carl Jones, Assistant Attorney General,
informing him of pending legal action for non-compliance with the
emergency order.
- 5/21/76 - Letter to Mr. Hulsey by Carl Jones imposing penalty for illegal
hauling.

1 9

0191



State of Alabama
Department of Public Health
 State Office Building
 Montgomery, Alabama 36130



IRA L. MYERS, M. D.
 STATE HEALTH OFFICER

March 4, 1976

RECEIVED

MAR 8 1976

SOLID WASTE
 MANAGEMENT SECTION

Mr. Shirley F. Maxwell, Environmental Specialist
 Industrial & Hazardous Waste Control Unit
 Industrial Solid Waste Control and Resource Recovery Program
 Department of Natural Resources
 270 Washington Street S.W.
 Atlanta, GA 30334

Dear Mr. Maxwell:

We appreciate receiving a copy of your February 25 Trip Report covering your investigation of disposal capabilities of the C. B. Young Refinery, Douglasville, Georgia.

As a matter of record, our earlier call to Mr. Clyde Fehn was not intended as a "complaint," or that wastes generated in Alabama were necessarily being "dumped" in Georgia.

In May of 1975, Dr. C. B. F. Young approached agencies in this state with a proposition for the recovery and disposal of certain liquid waste products at a site in Cleburne County, Alabama. His proposed site was determined not to be geologically or hydrologically acceptable, and neither was his proposed plan of disposal. Several hundred drums were openly stored at the site, and over the course of time had started to leak and present a potential threat to the water system of a nearby city. His organization was asked to remove the waste and properly dispose of it. Incidentally, to our knowledge this waste did not originate in Alabama. We were notified that Dr. Young's organization would have the waste picked up early in February, 1976, and hauled to Douglasville for disposal.

The reason for our call to Mr. Fehn was two-fold: Firstly, we do not condone the disposal of waste in this state, or in any other state, unless at an approved facility, and secondly we wished to advise your agency of the proposed hauling of this waste as a matter of courtesy.

We are pleased to learn that the site at Douglasville satisfies Georgia requirements, and if Dr. Young should wish it, and have further capability, we could possibly recommend this site to other sources of liquid wastes.

Sincerely,

Alfred S. Chipley

Alfred S. Chipley, Director
 Division of Solid Waste & Vector Control
 Environmental Health Administration

ASC:cl



C: Mr. F. Fehn

File No.

1 9 0192
Georgia Department of Public Health
COMPLAINT INVESTIGATION AND DISPOSITION

Recheck Date

Complainant's Name

Date

Douglas DANIELL

3-18-76

Complainant's Address

Comp. Phone No.

Douglas Co. Health Dept.

949-0360

Location of Problem

Received By

Basket Creek Road

M. Cantrell

File Number

1	2	3	4	5	6	7	

Date

8	9	10	11	12	13

Purpose

☐

1. Initial
2. Follow up

14

3. Other _____ (Specify)

Investigation Time

☐

15

1. 1 - 15
2. 16 - 30
3. 31 - 45
4. 46 - 1 hr.
5. 1:01 - 1:15
6. 1:16 - 1:30
7. 1:31 - 1:45
8. 1:46 - 2 hr.
9. 2:01 - & over

Disposition

☐

16

1. Clear
2. Follow up
3. No Violation
4. Referral
5. Court
6. Other _____ (Specify)

Complainant

☐

17

1. Tenant
2. Neighbor
3. Owner or Mgr.
4. Official Agency
5. Anonymous
6. Other _____ (Specify)

Received By

☐

18

1. Phone
2. Letter
3. Personal
4. Other _____ (Specify)

Actual Problem

☐

19

(See Above Left)

20

FIELD INVESTIGATION

INITIAL DATE	Housing	Maintenance	01	Investigated By:	Date	
		Accident Hazard	02			
	General Sanitation	Water Supply	03	Persons Contacted		
		Sewage Disposal	04			
		Tourist Accommodations	05			
	Solid Waste	Storage	06	Copies Furnished		
		Collection	07			
		Disposal	08			
	Control	Rodents	09			
		Insects	10			
		Dogs	11			
			Other Animals (Specify)	12		
			Food Service	13		
			Industrial Hygiene	14		
			Other (Specify)	15		

Remarks:

Waste hauled to site by B.B. Hulse, 942-6355. Waste generated at Young Refining Co., Douglasville (formerly Cracker Asphalt). D. Daniell called Sheriff "he would not come".

I called Lee Wallace (He will meet Jimmy Benson & Dan Hull this p.m. at site).

J. Morg

(Use Reverse Side for Additional Remarks)

Original - Return to State Files

1st Copy - County File

Additional Copies - Prepare as necessary



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

1 9 0193

J. LEONARD LEDBETTER
Division Director

May 19, 1976

MEMORANDUM

TO: Gene D. Drew, Unit Coordinator *200*
Air Pollution Compliance Program

FROM: Marvin Bradford, Environmental Specialist
Air Pollution Compliance Program

SUBJECT: Young Refinery, Douglasville, Georgia

Reference: Sample Numbers SW100 & SW101

The chemical analysis of these samples indicated that the listed organic compounds are found within the samples:

- 1) 0-chlorophenol
- 2) acetone
- 3) isopropanol
- 4) chloroform
- 5) tetrachloroethane
- 6) phenol
- 7) Dichlorophenol.

Incineration of liquid waste as indicated could produce corrosive and poisonous combustion products. These less desirable combustion products may result from incomplete incineration of organic compounds containing the halogen, chlorine (chloroform, dichlorophenol, tetrachloroethane, and 0-chlorophenol). Also if traces of amine or other sulfur compounds are within the liquid waste(s), the combustion products may contain H_2SO_4 , HCl and toxic sulfur compounds. It appears that the most poisonous gas that may be produced from incomplete combustion of the chlorinated compounds is phosgene. The current threshold limit value for phosgene is 0.1 ppm ($CO + Cl_2 \rightarrow COCl_2$) (phosgene).

Chemical Reactions of Combustion

Alcohol (isopropanol) + $O_2 \rightarrow$ aldehyde + $O_2 \rightarrow R-COOH + O_2 \rightarrow CO_2 + H_2O$

Temperature range = 1200°F to 1400°F for 0.3 to 0.6 second

Ketone (acetone) + $O_2 \rightarrow$ aldehyde + $O_2 \rightarrow R-COOH + O_2 \rightarrow CO_2 + H_2O$

Phenol (aromatic) + O_2 " " " " $CO_2 + H_2O$

Please observe that incomplete combustion of the above chemicals may yield aldehydes, carboxylic acids, and carbon monoxide. The carbon monoxide may then



react with any free chlorine. This reaction ($\text{CO} + \text{Cl}_2 \rightarrow \text{COCl}_2$) yields the carbonyl chloride (phosgene). Thus, the sources of free chlorine are the halogenated compounds. However, complete combustion of alkanes, alkenes, ketones, and alcohols would oxidize completely the organic chemicals to carbon dioxide and water.

Phenols

The simplest phenols are liquids or low melting solids. Because of hydrogen bonding, they have quite high boiling points. However, phenols are easily oxidized and fairly acidic compounds. Phenols are weaker acids than carboxylic acids; they can be separated from non-acidic compounds by means of their solubilities in basic mediums. Phenols may also be separated from carboxylic acids by means of their insolubilities in bicarbonate solutions. Aqueous hydroxides will convert phenols into salts; whereby, mineral acids (aqueous) will convert the salts into free phenols.

Phenol, $\text{C}_6\text{H}_5\text{OH}$, a carboic acid, benzenol

M.P. = 43°C
B.P. = 182°C
Solubility = 9.3 g/100 g H_2O @ 25°C , soluble in alcohols
 $k_a = 1.1 \times 10^{-10}$
density = 1.0722 @ 20°C
Heat of formation, gas = -21.71 kcal/mole @ 25°C
" " " , liquid = -37.80 kcal/mole @ 25°C
Free energy of formation - 6.26 " " "
" " " " liquid = -11.06 kcal/mole @ 25°C
TLV = 5 ppm or 19 mg/m^3 , skin
Mol. wt. = 94.11

O-Chlorophenol, $\text{C}_6\text{H}_5\text{ClO}$, Mol.wt. = 128.56

M.P. = 9°C
B.P. = 173°C
Solubility = 2.8 g/100 g H_2O at 25°C , very soluble benzene
 $K_a = 77$
specific heat = 399 cal/g $^\circ\text{C}$ @ $0-20^\circ\text{C}$
density = 1.2410 @ 18°C
TLV = none

Chloroform, CHCl_3 , Methane (trichloro)

specific heat = .232 cal/g $^\circ\text{C}$ @ 0°C
" " = .226 " " 15°C
" " = .234 " " 30°C
heat of vaporization = 64.74 cal/g @ 0°C
" " " = 60.01 " " 40°C
" " " = 59.01 " " 61.5°C
" " " = 55.19 " " 100°C
" " " = 0 " " 260°C

M.P. = -63.5°C
B.P. = 61.2 @ 760 mm Hg
density = 1.4916 @ 18°C
Solubility = soluble in acetone
Mol. wt. = 119.38
TLV = 50 ppm or 240 mg/m^3

Acetone, C₃H₆O, 2 - Propanone, Dimethyl Ketone

Heat of vaporization = 134.74 cal/g @ 0°C

Specific heat = .514 cal/g °C @ 3-22.6°C

" " = .504 " " " 0°C

Heat of formation, gas = -51.79 kcal/mole @ 25°C

" " " , liquid = -59.32 kcal/mole @ 25°C

Free energy of formation = -36.45 " "

" " " " = -37.16 " "

M.P. = -95.35°C

B.P. = 56.2°C

Solubility: insoluble in water, alcohols, benzene

TLV = 1000 ppm or 2400 mg/m³

Mol. Wt. = 58.08

density = 0.7908 @ 20°C

Dichlorophenol, 2,3-dichloro, C₆H₄Cl₂O

Mol.Wt. = 163.01

M.P. = 57°C

B.P. = NA

density = NA

Solubility = soluble in alcohols

TLV = none

Tetrachloroethane (1,1,2,2-), C₂H₂Cl₄ or Cl₂CHCl₂

Heat of vaporization = 55.07 cal/g @ 145°C

specific heat = .268 cal/g °C @ 20°C

M.P. = -43.8°C

B.P. = 146°C @ 760 mm Hg

Solubility = slightly soluble in water

density = 1.5984 @ 20°C

T.L.V. = 5 ppm or 35 mg/m³, skin

Mol. Wt. = 167.85

Isopropanol, C₃H₈O, 2-Propanol

heat of vaporization = 159.35 cal/g @ 82.3°C

" " formation, gas = -62.41 kcal/mole @ 25°C

" " " , liquid = -74.32 " " "

Free energy of formation = -38.20 " " " (gas)

" " " " = -38.83 " " " (liquid)

Mol. wt. = 60.09

M.P. = -89.5°C

B.P. = 82.4°C

density = 0.7851 @ 20°C

Solubility: insoluble in water, acetone

TLV = 400 ppm or 980 mg/m³

Phosgene, Cl₂CO, (carbonic acid dichloride,
carbonyl chloride, chloroformyl chloride)

Mol.wt. = 98.92

M.P. = -118°C

B.P. = 8.02°C

density = 1.392 @ 19°C

Solubility = decomposes in water and alcohols

TLV = 0.1 ppm or 0.4 mg/m³

Memo - Gene D. Lewis

May 19, 1976

1 9 0196

Please find attached additional information on the combustion and physical properties of fuel oils. Also, most of the sulfur present in fuel oils is converted to sulfur dioxide on combustion, and a typical fuel oil analysis does not reveal any chlorine present.

MB:mfw



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET S.W.
ATLANTA, GEORGIA 30334

J. LEONARD LEDBETTER
Division Director

March 23, 1976

M E M O R A N D U M

TO: The Record

FROM: Clyde F. Fehn, Unit Coordinator
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Liquid Wastes Belonging to Young Refining Corp.,
Douglas County.

1. Mr. Jack Hunnicutt called on Monday afternoon, March 21, 1976. He is with the Alabama Department of Health, Solid Waste Program. His telephone number is 205-832-6728.
2. He stated that observations had been made on Monday at the Young plant located in Borden Spring, Alabama. It was noted that two trucks were being loaded with the 55-gallon drums containing liquid waste. It was also noted that there may be about 1000 drums in the group. Some of the drums are leaking and some are puffed out from internal pressure.

CFF:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Shirley F. Maxwell
James W. Dunbar



JOE D. TANNER
Commissioner

J. LEONARD LEDBETTER
Division Director

Department of Natural Resources *Douglas County*

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET, S.W.

ATLANTA, GEORGIA 30334

19 0198

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
April 6, 1976

TRIP REPORT

Site Name & Location: Lee H. Wallace Property - Basket Creek Road
(Also Known as Old Capps Ferry Road)
Douglas County, Georgia
(See Attached Map).

Trip by: Daniel D. Hull, Environmental Engineer
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program *DH*

Accompanied by: Jimmy B. Benson, Environmental Specialist
Municipal Solid Waste Control Unit
Municipal Solid Waste Control Program

Date of Trip: March 18, 1976; 2:00 p.m.
Weather: Clear; Temperature: 70°F+.
Winds: Light and variable.

Officials Contacted: Douglas Daniell, Sanitarian
24 W. Spring Street
P. O. Box 157
Douglasville, Georgia 30134.
Telephone: 942-5134.

Lee H. Wallace, Owner
3308 Wallace Lake Road
Douglasville, Georgia 30134.

B. B. Hulse, Waste Hauler
Telephone: 942-6355.

Howard Wallace, Son of Lee Wallace.

Reference: History of this site is in the files of the Municipal Solid Waste Control Unit.

Comments:

Jim Benson and I were dispatched to the Wallace Property in Douglas County to investigate a report of promiscuous dumping. EPD support was requested by Douglas Daniell, Douglas County Sanitarian.

6a.
11776
1976

An on-site inspection revealed that eighty 55-gallon drums of an unknown liquid had been dumped the night before and partially covered using a bulldozer. In addition, eighty 55-gallon drums of unknown liquid were at the site, loaded on a flat-bed trailer. Mr. Wallace had intended to dump the remaining 80 drums, but was stopped by Mr. Daniell.

Mr. Wallace, the landowner, and Mr. Hulse, the hauler, denied having any knowledge of the contents of the drum. Two half-gallon samples were taken from two different drums for analysis.

Conclusions:

1. Young Refinery of Douglasville is responsible for this waste by their own admission.
2. This was an unauthorized operation and clearly in violation of the Rules and Regulations for Solid Waste Management.
3. Judging from my own reactions to inhaling and touching the liquid material, the material will turn out to be classified as hazardous.

Recommendations & Follow-Up Required:

1. Determine the contents of the waste material.
2. Impound the remaining material.
3. Since this is such a blatant and deliberate act of unauthorized dumping, it would seem to me that a fine as provided for in the Act is called for.
4. Ms. Maxwell should follow-up with Young Refinery to resolve this problem, including proper disposal of the remaining material.
5. The Municipal Solid Waste Control Unit should determine what action should be taken against Mr. Wallace and Mr. Hulse.

Photographs: Taken by Jim Benson and part of his report.

Attachments: Area Map, showing dumping site.

DDH:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
James W. Dunbar
Shirley F. Maxwell
Morgan V. Cantrell

ESTATE

HEIGHTS

30134

19 0200

Little

TEALIA

ARP

RD

RD

MILL

Creek

RIVER

BILL

PHILLIPS

FLYLOW

RIVER

RD

CANTRELL

RD

FIVE

NOTCH

Basket

30134

BASKET CREEK

APPROX. LOCATION OF DUMPING SITE

NOTCH

DOUGLAS CO
FULTON

CHATTahoochee RIVER

CARNETT FERRY RD

RD

WOODRUFF

30268

300 000 FT 1778

1788

DOG

RIVER

CHATTahoochee

SOUTH

RIVER

DOUGLAS COUNTY RIVER
FULTON COUNTY

TURKEY

ROAD

REDWINE

RIVERTOWN

CAMPBELLTON

Rico ES

RD

RD

RD

RD

RD

RD

RD

RD

RD

RD

RD

RD

RD

33

310 000 FT 1888

1888

300 000 FT 1899



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET S.W.

ATLANTA GEORGIA 30334

J. LEONARD LEDBETTER
Division Director

1 9 0201

April 9, 1976

M E M O R A N D U M

TO: The Record

FROM: *CFF.* Clyde F. Fehn, Unit Coordinator
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Promiscuous Dumping of Hazardous Liquid Wastes by Young Refining Corp.

1. Mr. James Dunbar notified me on the morning of March 18, 1976, that promiscuous dumping of liquid wastes had occurred in Douglas County. There was speculation that these wastes had originated from Arivec Chemicals, Inc.
2. I called Mr. James Parivechio, Sr., President of Arivec Chemicals, Inc. He stated that his company was not doing any promiscuous dumping of liquid wastes.
3. A little later in the morning, Mr. Dunbar notified me that his group had determined that these liquid wastes had originated from Young Refining Corp.
4. Still later in the morning, Mr. Parivechio called me and stated that he had discussed this matter with Dr. C. B. F. Young, President of Young Refining Corp. Dr. Young readily acknowledged that the liquid wastes were from his company. Mr. Parivechio told me that these wastes had a long history and strongly recommended that we obtain samples.
5. Mr. Dan Hull was sent out to the site of the promiscuous dumping in order to obtain samples. Mr. Hull tried to get samples of the material which had already been dumped but failed because of soupy conditions. Mr. Hull then got two samples from the remaining drums on the truck. He was able only to get two drums open. One sample came from each of these two drums. The two samples are held in the Water Quality Lab. Mr. James Benson assisted in this sampling. Both men were contaminated with the waste on their hands and arms. Both men suffered clinical effects of this exposure, probably through dermal route and inhalation routes. Mr. Hull suffered respiratory distress later in the evening while swimming. Mr. Benson felt ill for 2-3 days. The odor was still being emitted from the



MEMO

Page 2

April 9, 1976

1 9 0202

skin of Mr. Benson 24 hours later. Mr. Hull's shoes were saturated with the liquid and were emitting strong vapors one week later. He was advised to discard these shoes.

6. Several months ago, we were advised by Mr. Alfred S. Chipley and Mr. Jack Hunnicutt, of the Alabama State Environmental Health Administration that they had just refused to permit the land disposal of certain liquid wastes stored at the Young Refining Co. plant located in Borden Springs, Alabama, which town is located on Highway #278, just west of the Georgia State Line. Mr. Chipley advised that he understood that the liquid wastes would be shipped to the State of Georgia.
7. Mr. Hunnicutt has subsequently inspected the Alabama Young Plant several times and subsequent telephone coordination has occurred. Please see my memo of March 31, 1976, on this subject.
8. Dr. Young called me on March 25, 1976, at about 4:30 p.m. to report the following:
 - a. About 3800 to 4000 gallons of this liquid waste had just been transported from his Alabama plant to his Douglas County plant in a tank truck. The waste was then pumped from the tank truck into a large elevated tank.
 - b. He planned to transport all the remaining liquid waste from Alabama in a similar manner because of the leaking condition of the 55-gallon drums in Alabama and enforcement pressures from Alabama environmental officials.
 - * c. He stated that "probably" some of the promiscuous dumping liquid waste included wastes hauled from Alabama.
9. I advised Dr. Young that we probably would require these liquid wastes to be hauled to the incinerator located at Baton Rouge, Louisiana.

CFF:dc

cc: Moses N. McCall
John D. Taylor, Jr.
James W. Dunbar
Shirley F. Maxwell



JOE D. TANNER
Commissioner

Department of Natural Resources ¹⁹0203

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

J. LEONARD LEDBETTER
Division Director

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
April 21, 1976

TRIP REPORT

Site Name & Location: Young Refinery
Huey Road
Douglasville, Georgia.

Trip by: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Accompanied by: None.

Date of Trip: April 8, 1976.

Official Contacted: Dr. C. B. Young, President.

Reference: Continued surveillance of impounded waste from the Lee Wallace
dumping incident of 3/18/76.

Comments:

Dr. Young reported that all of the liquid waste being held at his Borden Springs, Alabama, facility had been removed from the 55-gallon drums, loaded into tankers, and transported to the Douglasville, Georgia plant. He claimed a Mr. Roberts from EPD, had told him it was legal to do this. He had also removed the waste material from the eighty 55-gallon drums being held on his property and placed the entire quantity from tankers and drums in two large storage tanks #223 and #224 on his property. He has been adding his own oil to both tanks and slowly incinerating the diluted waste in his process boilers. Mr. Fang, one of his engineers, reported that the contents for the day of my visit were as follows:

#223 - 295.74 barrels = 12421 gallons
#224 - 274.56 barrels = 11531 gallons

All empty drums are being sold as scrap metal to Metals Recycling, P. O. Box 73A, Fruithurst, Alabama 36262. I found 80 empty drums on a trailer, still smelling faintly of the original material. Also, on adjacent ground, were 50 empty drums labeled "used solvents" and "tetrachloroethylene". Dr. Young



Trip Report

Page 2

~~April 21, 1976~~ Apr 8

stated they would be picked up.

I reminded Dr. Young that an order had been issued restraining him from doing anything with the waste, and I mentioned that dilution would make analysis more difficult. I also told him that his original letter to Mr. McCall did not constitute compliance with the order and we would require a detailed list of waste components and the sources.

Conclusions:

Gathering all known data from all sources we know the waste contains:

- unsaturated amines
- benzene, kerosene, and hydrocarbon solvents
- glycol and polyhydroxy alcohols
- sodium sulfonate
- paraffins
- aromatics which have been polymerized
- other aromatic products

Our samples have the odor of phenol-cresol-cresylic acid group.

We do not know how many drums are involved. Mr. Chipley of Alabama Solid Waste mentions "several hundred"; Mr. Honeycutt of the same office states 1000 drums; and Charles Young claims 250 drums. So we do not know how much it has been diluted.

I recommend that we have Dr. Young analyze samples of diluted waste and the original waste being held in our laboratory. We should keep in mind that more of the same waste may be brought in from outside the State in the future.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
✓ File Copy



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

1 9 0205

J. LEONARD LEDBETTER
Division Director

April 22, 1976

M E M O R A N D U M

TO: The Record

FROM: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

SUBJECT: Meeting 4/12/76 with Dr. C. B. Young, President, Young Refinery.

Reference: Disposal of waste recovered at Lee Wallace property on 2/18/76.

The meeting was held in the office of the Branch Chief and was attended by John Taylor, Clyde Fehn, Marvin Lowry and Shirley Maxwell.

Dr. Young was informed by Mr. McCall that he was in violation of the previously issued ordinance on three (3) counts, namely incineration of the impounded wastes and dilution of the waste by an unknown amount with his own waste oil. He was also in violation by reason of not having submitted a sufficiently detailed list of waste constituents and also a list of the sources of these materials.

Dr. Young denied that the waste had been incinerated. This was a contradiction of his statement during a plant inspection on 4/8/76 and in a conversation with Mr. Taylor.

During the meeting, it was discovered that Young Refinery had changed from burning #2 oil to #5 oil which is higher in sulfur content, and they may, therefore, be in violation of their air quality permit to operate an incinerator.

Since Dr. Young continued to deny complete knowledge of the waste components, Mr. McCall suggested that a laboratory analysis be performed. Dr. Young agreed to remove a waste sample from each storage tank and to have these and the ~~two~~ samples of original waste held in the Water Quality Laboratory analyzed by G. C. - Mass Spec. to determine the composition.

MEMO
Page 2
April 22, 1976

He also agreed to go into his records and furnish us with a complete list of waste sources from January 1972 to the present time. This was to be accomplished within two (2) weeks of receipt of a letter of instruction.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn
File Copy



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION
270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

J. LEONARD LEDBETTER
Division Director

1 9 0207

Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program
May 3, 1976

TRIP REPORT

Site Name and Location: Young Refinery
Huey Road
Douglasville, Georgia.

Trip by: Shirley F. Maxwell, Environmental Specialist
Industrial & Hazardous Waste Control Unit
SM Industrial Solid Waste Control and
Resource Recovery Program

Accompanied by: Joseph W. Newton, Environmental Engineer
Industrial & Hazardous Waste Control Unit
Industrial Solid Waste Control and
Resource Recovery Program

Date: April 28, 1976.

Officials Contacted: Dr. C. B. Young, President.

Reference: Investigation of illegal burning of impounded waste from the Wallace property, according to complaint of Bruce Wages, and as discussed in the meeting on the same day with Mr. McCall.

Comments:

The decision had been made to seal the two holding tanks #223 and #224 containing the waste and located on the Young property. Joe Newton and I arrived and were announced to Dr. Young through the receptionist. Fifteen to twenty minutes later we were admitted to his office.

I informed Dr. Young that there had been a complaint that he was burning the impounded waste during the night. He immediately became irate. He denied it emphatically and stated as follows: "I wish to hell I knew who was complaining". He said that they had no proof and mentioned going to court. I told him that we had come to seal his tanks, and he leaned over his desk, and in a rage, he stated, "I don't give a damn what you do. I want you people out of my hair". He made various derogatory statements about people in EPD not coordinating what they were doing, which I did not feel were worth refuting. He again stated that we should take the whole



Trip Report
Page 2
May 3, 1976

issue to court.

He called in one of his engineers, a Mr. Fang, and instructed him to tell us whether they were burning the waste. Mr. Fang, who is oriental, stated, "No, not burning now". He presented tank strapping data which were the same as those given to me on my April 8, 1976, inspection. Dr. Young then called in another engineer and stated, "Some bastard has accused us of burning at night". The group proceeded to the tanks where we sealed them in Dr. Young's presence.

Dr. Young had stated in his office that there was no way they could possibly have burned the waste at night. During the sealing operation, I checked with the plant engineer and he affirmed that the plant operates on a 24 hour basis. I also knew from my April 8th visit that the waste had at one time been burned illegally (See Trip Report, 4/ 8/76). On a previous visit, I had inquired about odors at Arivec Chemical Co. which is adjacent to Young Refinery. Mr. Parivechio, the president, stated on an unofficial basis that they had noticed noxious odors coming from Young Refinery on several occasions during the past month. However, they were not making a complaint. This appears to substantiate Mr. Wages' allegations.

After leaving the Refinery, we visited Mr. Wages at his motel. He stated that he had no wish to make trouble but felt that something had to be done. He feared the fumes would affect him, his family, and his business. I told him to call Mr. McCall the moment he noticed the burning so that we could verify that it was taking place.

Conclusions:

Dr. Young was obviously out of control during the meeting. I felt there was nothing to be gained by further discussion. Before we left, Dr. Young stated that there was nothing personal intended in his remarks. My personal reaction was that the display was theatrical, and not consistent in someone of Dr. Young's apparent background.

SFM:dc

cc: Moses N. McCall
John D. Taylor, Jr.
Clyde F. Fehn



The Department of Law
State of Georgia
Atlanta
30334

RECEIVED
1 9 0209
MAY 17 1976

SOLID WASTE
MANAGEMENT SECTION

ARTHUR K. BOLTON
ATTORNEY GENERAL

132 STATE JUDICIAL BUILDING
TELEPHONE 656 3300

May 14, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Lee H. Wallace
3308 Wallace Lake Road
Douglasville, Georgia 30134

Re: Disposal of hazardous solid wastes in Basket Creek
Road Disposal Site, Douglas County

Dear Mr. Wallace:

This office has received from the Environmental Protection Division, Department of Natural Resources (hereinafter "EPD"), a thoroughly documented report of the willful, night-time disposal of approximately eighty (80) 55-gallon drums of hazardous waste obtained from the Young Refinery into the Basket Creek Road Disposal Site in Douglas County, Georgia. This disposal occurred, without permission, on or about the night of Wednesday, March 17, 1976, and was perpetrated with your apparent knowledge and consent.

The hazardous waste disposed of on this occasion was toxic and inherently dangerous in nature. Some of the identifiable compounds in this hazardous waste include orthochlorophenol, chloroform, tetrachlorethane, acetone, and dichlorophenol. The EPD has requested that the Attorney General's office initiate expeditious legal action against you for this violation of the Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended, and the Rules and Regulations of the Department of Natural Resources promulgated thereunder.

Section 15 of the Solid Waste Management Act, supra, as amended (Ga. Code Ann. § 43-1615), provides that any person who violates any provision of the Act shall be liable to a civil penalty not to exceed \$1,000.00 for such violation and an additional civil penalty not to

Mr. Lee H. Wallace
May 14, 1976
Page Two

exceed \$500.00 for each day during which such violation continues. Section 7 of the Act provides that it shall be unlawful for any person to engage in solid waste handling except in such a manner as to conform to and comply with all the rules and regulations established under the Act. Also, Section 7 decrees it unlawful to engage in solid waste handling in a manner which, among other things, will likely create a nuisance, impair the quality of the environment, or likely create hazards to the public health, safety or well-being. Rule 391-3-4-.04(5) specifies pointedly that hazardous wastes shall only be handled in accordance with a written procedure submitted to and approved by the EPD.

The referenced disposal of hazardous wastes on March 17, 1976, violated the provisions of Section 7 of the Act, described above, and the terms of Rule 391-3-4-.04(5) concerning the disposition of hazardous wastes. Additionally, this disposal also specifically violated your instructions from the EPD under date of March 5, 1976, that "Receipt of waste materials at this site must cease in accordance with your agreement to begin closing the site within two weeks."

The report rendered this office indicates that although the disposal occurred on March 17, 1976, there is a strong possibility the destructive effect lasted for several days thereafter. However, in a spirit of reasonableness and compromise, and to avoid any protracted litigation or administrative hearing, the EPD, at this time, is willing to accept a voluntary payment in the amount of \$750.00 in full and final settlement of this matter.


Unless I hear from you within fifteen (15) days of your receipt of this letter, I will have no choice but to initiate appropriate legal action on behalf of the EPD. Of course, I will be happy to discuss this matter with you or your attorney should you so wish.

I certainly encourage this volitional payment and an amicable settlement of this matter so as to avert the initiation of legal proceedings. Let me make it clear that my receipt of your check in the amount of \$750.00, made payable to the Georgia Environmental Protection Division, will settle this matter fully and finally and obviate the necessity for legal action.

Mr. Lee H. Wallace
May 14, 1976
Page Three

If you are agreeable to this settlement figure, I will, following receipt of your check, draft a consent order between the EPD and you. This consent order would contain no admission by you of the violation of any State law or regulation and would be fashioned so as not to increase your exposure to any possible third-party liability. As stated previously, please let me know your intentions within fifteen (15) days from your receipt of this letter.

Very sincerely,



CARL C. JONES

Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall III ✓



The Department of Law
State of Georgia
Atlanta

30334

ARTHUR K. BOLTON
ATTORNEY GENERAL

132 STATE JUDICIAL BUILDING
TELEPHONE 656-3300

May 20, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Dr. C. B. Young
President
Young Refinery
Huey Road
Douglasville, Georgia 30134

RECEIVED

MAY 24 1976

SOLID WASTE
MANAGEMENT SECTION

Dear Dr. Young:

On March 19, 1976, the Director of the Environmental Protection Division (hereinafter "EPD"), J. Leonard Ledbetter, issued Emergency Order No. EPD-SW-17, naming you as a respondent. This Emergency Order was precipitated by the EPD's determination that, stored on your property or otherwise within your custody or control, were at least 80 fifty-five gallon drums of liquid waste material which had every indication of being hazardous waste. Also, the EPD had determined that some of this waste had already been deposited at the Basket Creek Road Disposal Site on property owned by Lee Wallace in Douglas County, Georgia.

The Emergency Order, which is a final Order, required you to, among other things, file a written report with the Director which explains and describes:

- "(a) Where said liquid waste material was generated and transported from; _____
- (b) The individual or individuals transporting said liquid waste material to and from Respondent's (your) facility;
- (c) The exact nature of the chemical components and ingredients of said liquid waste material, sufficiently detailed so as to enable said Director to make a determination of the effect of said liquid waste material on the public health, safety, and well-being."

Dr. C. B. Young
May 20, 1976
Page Two

Moses N. McCall, Chief, Land Protection Branch, EPD, informs me that he and his staff have met with you since the issuance of the Order on several occasions. However, after the passage of two full months, the EPD still does not have a definitive description and explanation of the sources from which this waste was obtained and the exact nature of the components and ingredients of the waste material. The EPD has this morning referred this matter to the Attorney General's office for legal action.

The Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended (Ga. Code Ann. § 43-1615), provides that any person who intentionally or negligently fails or refuses to comply with a final Order of the Director shall be liable to a civil penalty not to exceed \$1,000.00 for such violation, and an additional civil penalty not to exceed \$500.00 for each day during which such violation continues. The Order issued to you on March 19, 1976, required that the earlier-quoted description and explanation be filed with EPD by no later than 4:30 p.m. on March 22, 1976. On April 30, 1976, you informed Mr. McCall that you would furnish this information "in a few days". To this date, no such description and explanation has been filed as will comply with the specificity required by the Order.

This violation is a continuing one and must be remedied at once. Unless a report is filed with Mr. McCall, representing the Director, which report specifically and clearly delineates the sources and exact components of this waste, within five (5) days from your receipt of this letter, our office will have no alternative but to proceed to invoke the civil penalties statute and schedule a hearing.

I am sure you realize and can appreciate the gravity of this situation and the fact that the EPD is required and charged by law to determine the methods of hazardous waste disposal in order to protect the public health and safety. We need your cooperation to avoid any unnecessary litigation.

Very sincerely,


CARL C. JONES

Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall ✓



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION *Another layer*

270 WASHINGTON STREET, S.W.

ATLANTA, GEORGIA 30334

Young File

J. LEONARD LEDBETTER
Division Director

May 20, 1976

1 9 0214

Occurrence Date 5/18/76

MEMORANDUM

To: Mr. James W. Dunbar, Program Manager
Municipal Solid Waste Control Program

From: Moses N. McCall, III, Chief *MC*
Land Protection Branch

Subject: Lee Wallace--Civil Penalty

On May 18, 1976 I telephoned Mrs. Lee H. Wallace, as per discussions with Carl C. Jones, regarding Mr. Jones' May 14, 1976 demand letter regarding civil penalty for the illegal dumping of liquid waste from Young Refinery, Inc., the night of March 17, 1976. The following conversation /facts ensued during the conversation:

I informed Mrs. Wallace that she and her husband were responsible for the occurrence as property owners of the site. She stated that it had happened only one time and they did not know until telephoned by one of their neighbors ("Jimmy George...lives the first trailer back this side of the site.") the following morning. Their neighbor stated that someone "had carried something down there that didn't smell good".

Mrs. Wallace stated that there had been no more dumping at the site. When I advised that the access to the site was still not limited as required by State regulation, she replied "there's no fence, no gate, no nothing, but they wouldn't have a thing to do but throw it over the fence; there is a sign saying no dumping allowed".

Mrs. Wallace said she had no knowledge of the dumping of the Young waste--she and her husband had paid "about \$1,900.00 to get it cleaned off and did not tell Young to carry any barrels down there". She stated that they had never let anyone put anything there except Airvec Chemical Company, which had some old empty barrels that they had to put somewhere, and they were all covered up now. She said they never let Young put anything there.



Memorandum

To: Mr. James W. Dunbar
From: Moses N. McCall
May 20, 1976
Page 2

I asked if B. B. Hulsey normally carried waste to the site. She replied, "No". When asked if Hulsey lived in Douglas County, she stated he lived "down near the Chattahoochee, coming out 92". She stated there would be no further disposal; they did not wish to operate a disposal site; and they wanted to sell the property.

I informed Mrs. Wallace that we were inclined to proceed with the fine demand because of the illegal dumping, but that Mr. Jones of the Attorney General's Office had indicated that it may present a financial burden. She replied, "...we're broke and bent, and I don't think it's fair to charge us for something we didn't even know about. I don't know why or who told Dr. Young to carry them down there, but we sure didn't". She related that she wasn't sure the dumping occurred at night, but "they said it did".

I advised Mrs. Wallace to hold Mr. Jones' letter and not to worry about it until I got back in touch with her. I advised I would talk to other people, including my staff and the Attorney General's Office.

Conclusions: Subsequent follow-up has convinced me that we should proceed with vigor to fully enforce the law against Lee H. Wallace, B. B. Hulsey, and Dr. C. B. F. Young.

NNM:bbk

cc: Mr. Carl C. Jones, III
Mr. John D. Taylor, Jr.

Memo Frank

State of Georgia vs. Lee H.
B. B.
Dr. C. B. . .

Holding

Defendants in Case:

1. Lee H. Wallace (Owner of 20 acre disposal site)
3308 Wallace Lake Road
Douglasville, Georgia 30134
Phone: 942-6026
2. B. B. (Bart) Hulsey (Transporter of Waste)
Route 4
Britt Road
Douglasville, Georgia 30134
Phone: Business - 942-6355
Residence- 942-2144
3. Dr. C. B. F. Young, President
Young Refining Corporation
Huey Road
Douglasville, Georgia 30134



JOE D. TANNER
Commissioner

Department of Natural Resources

ENVIRONMENTAL PROTECTION DIVISION

270 WASHINGTON STREET, S.W.
ATLANTA, GEORGIA 30334

1 9

0217

J. LEONARD LEDBETTER
Division Director

May 21, 1976

Occurrence Date—3/17/76

MEMORANDUM

To: Mr. John D. Taylor, Jr., Program Manager
Industrial Solid Waste & Resource Recovery Program

From: Moses N. McCall, III, Chief *Mc*
Land Protection Branch

Subject: Young Refining Corporation (Telephone Conversation on May 19, 1976)

May 19, I discussed with Douglas W. Daniell, Public Health Sanitarian, Douglas County Health Department, his investigation of the illegal dumping of liquid wastes from Young Refinery, Inc. at the Lee Wallace—Basket Creek Solid Waste Disposal Site the night of March 17, 1976. Mr. Daniell related the following facts:

Daniell received a complaint call the night of March 17, 1976, and arrived at the Wallace owned disposal site at approximately 9:45 p.m. (He stated he could smell an odor some 3 miles before arriving at the site.) When Daniell arrived, 4 persons were on the scene (two of whom he recognized as B. B. Hulsey and Hulsey's son). Two tractor-trailer rigs were present. One had been emptied of its contents (approximately 80, 55-gallon drums) and the drums were being covered with a bulldozer. Another tractor-trailer was backed up to the "bank". The side rails had been removed from the trailer and persons were aboard the truck prepared to manually push the 55-gallon drums off.

Tag numbers of the 2 tractors and 2 trailers were recorded by Daniell. (The vehicles bore Paulding County identification stickers on the tags.) Persons confronted by Daniell at the site refused to answer questions. One person handed Daniell a business card and stated he was working for Lee Wallace. Daniell instructed the persons not to unload anything else and to wait at the site until he called the Sheriff (no phone was available onsite; therefore, Daniell proceeded to the intersection of Georgia Highways #5 and #166 to telephone the Sheriff). Daniell stated that he was gone approximately 5 minutes and observed only one pickup truck with a camper coming from the vicinity of the dump site during this period. Upon his (Daniell's) return to the site, one tractor-trailer (empty) and one tractor were gone. One trailer (still loaded with drums) remained. Because of the highway routing in the area, Daniel surmises the vehicles departed southwardly into Fulton County.

6a.

1776
1976

Memorandum

To: Mr. John D. Taylor, Jr.
From: Moses N. McCall, III
May 21, 1976
Page 2

The following morning, 3/18/76, Daniell ran a check of the license plates. By the time he received verification of registration to Bart Hulsey, Dr. C. B. Young of Young Refinery, Inc., phoned Daniell and admitted the liquid waste had come from his plant. Young also related to Daniell that Bart Hulsey had come to him (Young) and stated he (Hulsey) understood that Young had some material he (Young) needed moved, and said he (Hulsey) would contract to move it for him (Young). Young told Daniell that he (Young) did not know where Hulsey was taking the waste and had not asked Hulsey; he (Young) had just hired Hulsey to haul it off.

Daniell has been apprised of legal proceedings EPD is persuing. Daniell is willing to testify as a witness. Daniell further stated that on 3 occasions, as he drove past the Young plant in his normal line of duty, he had smelled an odor like the odor experienced the night of March 17, 1976, at the aforementioned dump site.

MNM:bbk

cc: Mr. Carl C. Jones, III
Mr. James W. Dunbar

ATTACHMENT - ATTACHMENT 15

The Department of Law
State of Georgia
Atlanta

1 9 0219



ARTHUR K. BOLTON
ATTORNEY GENERAL

30334

132 STATE JUDICIAL BUILDING
TELEPHONE 656-3300

May 21, 1976

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. B. B. Hulsey
Route 4
Britt Road
Douglasville, Georgia 30134

Re: Disposal of hazardous solid wastes in Basket Creek
Road Disposal Site, Douglas County

Dear Mr. Hulsey:

This office has received from the Environmental Protection Division, Department of Natural Resources (hereinafter "EPD"), a thoroughly documented report of the willful, night-time disposal of approximately eighty (80) 55-gallon drums of hazardous waste obtained from the Young Refinery into the Basket Creek Road Disposal Site in Douglas County, Georgia. This disposal occurred without permission, on or about the night of Wednesday, March 17, 1976. The information this office has received shows that you were a principal participant in the disposal of this waste.

The hazardous waste disposed of on this occasion was toxic and inherently dangerous in nature. Some of the identifiable compounds in this hazardous waste include orthochlorophenol, chloroform, tetrachlorethane, acetone, and dichlorophenol. The EPD has requested that the Attorney General's office initiate expeditious legal action against you for this violation of the Solid Waste Management Act, Ga. Laws 1972, pp. 1002 et seq., as amended, and the Rules and Regulations of the Department of Natural Resources promulgated thereunder.

Section 15 of the Solid Waste Management Act, supra, as amended (Ga. Code Ann. § 43-1615), provides that any person who violates any provision of the Act shall be liable to a civil penalty not to exceed \$1,000.00 for such violation and an additional civil penalty not to

Mr. B. B. Hulsey
May 21, 1976
Page Two

exceed \$500.00 for each day during which such violation continues. Section 7 of the Act provides that it shall be unlawful for any person to engage in solid waste handling except in such a manner as to conform to and comply with all the rules and regulations established under the Act. Also, Section 7 decrees it unlawful to engage in solid waste handling in a manner which, among other things, will likely create a nuisance, impair the quality of the environment, or likely create hazards to the public health, safety or well-being. Rule 391-3-4-.04(5) specifies pointedly that hazardous wastes shall only be handled in accordance with a written procedure submitted to and approved by the EPD.

The referenced disposal of hazardous wastes on March 17, 1976, violated the provisions of Section 7 of the Act, described above, and the terms of Rule 391-3-4-.04(5) concerning the disposition of hazardous wastes.

The report rendered this office indicates that although the disposal occurred on March 17, 1976, there is a strong possibility the destructive effect lasted for several days thereafter. However, in a spirit of reasonableness and compromise, and to avoid any protracted litigation or administrative hearing, the EPD, at this time, is willing to accept a voluntary payment in the amount of \$750.00 in full and final settlement of this matter.

Unless I hear from you within fifteen (15) days of your receipt of this letter, I will have no choice but to initiate appropriate legal action on behalf of the EPD. Of course, I will be happy to discuss this matter with you or your attorney should you so wish.

I certainly encourage this volitional payment and an amicable settlement of this matter so as to avert the initiation of legal proceedings. Let me make it clear that my receipt of your check in the amount of \$750.00, made payable to the Georgia Environmental Protection Division, will settle this matter fully and finally and obviate the necessity for legal action.

Mr. B. B. Hulsey
May 21, 1976
Page Three

If you are agreeable to this settlement figure, I will, following receipt of your check, draft a consent order between the EPD and you. This consent order would contain no admission by you of the violation of any State law or regulation and would be fashioned so as not to increase your exposure to any possible third-party liability. As stated previously, please let me know your intentions within fifteen (15) days from your receipt of this letter.

Very sincerely,



CARL C. JONES
Assistant Attorney General

CCJ/ec

cc: J. Leonard Ledbetter
Moses N. McCall III ✓

PRELIMINARY ASSESSMENT
TELEPHONE CONVERSATION RECORD

1 9 0222

Site Name: Young Refining Corporation I.D.# GADO51011344
Location Address: 7982 Huey Road; Douglasville, Georgia.
Phone: (404) 942-2343.

Contact: Mr. Charles E. Young Jr. Title: Vice-President
Address: 7982 Huey Road, Douglasville, Ga.
Phone: (404) 942-2343.

Authority: Section 3012 of CERCLA, Comprehensive Environmental Response, Compensation and Liability Act.

Facility has notified EPA via - RCRA 3001 site is in HWDMS
CERCLA 103c site is in NOTIS

Need Information concerning waste generation and disposal prior to Nov. 19, 1980.

How long has facility been in operation? the late 1955.

What kind of wastes were generated and how much?

Small amounts (200-300 lbs) of heat exchanger residue
that is generated in one year.

Was it disposed on site and where?

Yes, a shovel or a couple of wheel barrels every now and then
of sludge from heat exchanger (iron oxide - rust),

Was it transported offsite and where?

Materials that were brought in from other companies were disposed
of in drums to an EPA approved facility in Kentucky. Liquids were
disposed to South Carolina. No recollection of disposal to (over)

Was it treated and how?

Water was treated daily to recapture any oil escaping

Have there been any past spills? Describe.

2 spills early 60's and late 60's; wreck of a truck (oil) small spillage
and a spill at refinery of 9,000 gals of diesel fuel, some recovered
(over)

Date of call: December 10, 1985 Time: 11:15, 11:50 AM * left message

December 10, 1985

12:50 PM Spoke with Mr. Charles
Young

Gilda A. Knowles

Reviewed by Mike Allred

FROM: CHARLES P. EVANS (404) 656 - 7404
TO: JIMMY LEON GEORGE (404) 942 - 8324
SITE: BASKET CREEK BURIED PIT / SITE 2 1 9 0223
DATE: 12/18/85 TIME: 4:25 PM

COMMENTS: ① MR. GEORGE WAS CONTACTED IN ORDER TO
OBTAIN ADDITIONAL DETAILS OF WASTE DISPOSAL AT THE
SUBJECT SITE

② MR. GEORGE SAID THAT HE COULD NOT RECALL ANY DETAILS
OF THE WASTE DISPOSAL, HOWEVER HE SAID THE DISPOSAL
AREA WAS NOT ON THE LAND HE ONCE OWNED, NOW OWNED
BY MRS. GREG PARKER.

③ FROM MR. GEORGE'S DESCRIPTION OF THE LOCATION OF THE
PROPERTY LINE THE WASTE DISPOSAL AREA MAY BE ON
MRS. WALLACE'S PROPERTY OR ON THE PROPERTY LINE
SHARED BY BOTH PARCELS OF LAND.

ACTION REQUIRED: NONE

JIMMY LEON GEORGE
8450 BANKHEAD HWY
VILLA RICA, GA 30180

TO BE REVIEWED BY:

1) Mike Allen 12-18-86
2) _____
3) _____
4) _____
5) _____

APPENDIX D

APPENDIX D**References**

1. United States Department of Agriculture, Soil Conservation Service, 1959. Soil Survey of Douglas County.
2. McConnell, Keith and Charlotte Abrams, 1984. Geology of the Greater Atlanta Area, Bulletin 96, Department of Natural Resources, Environmental Protection Division, Georgia Geologic Survey.
3. United States Department of Commerce, 1978. Climatological Data Annual Summary , Georgia, Volume 82, No. 82.
4. United States Geological Survey Map, 1958. 7.5 Minute Series, Rico Quadrangle.
5. United States Environmental Protection Agency, 1982. Test Methods for Evaluating Solid Waste, Publication SW-846.
6. Sax, Irving N., 1979. Dangerous Properties of Industrial Materials, Van Nostrand Reinhold Company.

APPENDIX E

1 9 0227

EPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION		I. IDENTIFICATION	
				01 STATE GA	02 SITE NUMBER D980844849
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			
Basket Creek Rd Buried Pit/Site No. 2		Basket Creek Road			
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE
Douglasville		GA	30135	Douglas	97
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)			
33° 35' 34.7" N 84° 48' 58.0" W		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER			
III. INSPECTION INFORMATION					
01 DATE OF INSPECTION		02 SITE STATUS		03 YEARS OF OPERATION	
10/8/85		<input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE		1976 - 1976 BEGINNING YEAR ENDING YEAR	
04 AGENCY PERFORMING INSPECTION (Check all that apply)					
<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input checked="" type="checkbox"/> E. STATE <input type="checkbox"/> F. STATE CONTRACTOR <input type="checkbox"/> G. OTHER					
05 CHIEF INSPECTOR		06 TITLE		07 ORGANIZATION	08 TELEPHONE NO.
Charles P. Evans		Environmental Specialist		GA EPD	(404) 656-7404
09 OTHER INSPECTORS		10 TITLE		11 ORGANIZATION	12 TELEPHONE NO.
Gilda A. Knowles		Environmental Specialist		GA EPD	(404) 656-7404
Steve Walker		Environmental Specialist		GA EPD	(404) 656-7404
					()
					()
					()
13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE	15 ADDRESS		16 TELEPHONE NO.
Mrs. Lee Wallace		owner	4022 Boyd Road Douglasville, GA 30135		(404) 377-7010
					()
					()
					()
					()
					()
					()
17 ACCESS GAINED BY		18 TIME OF INSPECTION		19 WEATHER CONDITIONS	
<input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		10.00a.m. - 3:30p.m.		Clear	
IV. INFORMATION AVAILABLE FROM					
01 CONTACT		02 OF (Agency/Organization)		03 TELEPHONE NO.	
Mrs. Lee Wallace		owner's wife		(404) 377-7010	
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Charles P. Evans <i>CPE</i>		DNR	GA EPD	(404) 656-7404	1 / / 86
					MONTH DAY YEAR


APPENDIX E

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION		I. IDENTIFICATION 01 STATE: GA 02 SITE NUMBER: D980844849			
II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS					
01 PHYSICAL STATES (Check all that apply) <input checked="" type="checkbox"/> A SOLID <input type="checkbox"/> E SLURRY <input type="checkbox"/> B POWDER FINES <input type="checkbox"/> F LIQUID <input type="checkbox"/> C SLUDGE <input type="checkbox"/> G GAS <input type="checkbox"/> D OTHER _____ <small>(Specify)</small>	02 WASTE QUANTITY AT SITE <small>(Measure of waste quantities must be independent)</small> TONS _____ CUBIC YARDS 417 NO. OF DRUMS _____	03 WASTE CHARACTERISTICS (Check all that apply) <input checked="" type="checkbox"/> A TOXIC <input type="checkbox"/> E SOLUBLE <input type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> B CORROSIVE <input type="checkbox"/> F INFECTIOUS <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> C RADIOACTIVE <input type="checkbox"/> G FLAMMABLE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> D PERSISTENT <input type="checkbox"/> H IGNITABLE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPLICABLE			
III. WASTE TYPE					
CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS	
SLU	SLUDGE				
OLW	OILY WASTE	unknown	n/a	n/a	
SOL	SOLVENTS				
PSO	PESTICIDES				
ORO	OTHER ORGANIC CHEMICALS				
IOC	INORGANIC CHEMICALS				
ACD	ACIDS				
BAS	BASES				
MES	HEAVY METALS				
IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)					
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	benzene	71432	LF	300	mg/kg
	methylethyl ketone	78933	LF	62.00	mg/kg
	trichloroethylene	79016	LF	1740	mg/kg
	ethyl benzene	100414	LF	5700	mg/kg
	xylene (total)	1330207	LF	51,000	mg/kg
	toluene	108883	LF	75,000	mg/kg
	tetrachloroethene	630206	LF	2400	mg/kg
	acetone	67641	LF	177,000	mg/kg
	methyl isobutyl ketone	108101	LF	22,100	mg/kg
	PCB	53449219	LF	4.24	mg/kg
	1,2 dichlorobenzene	955501	LF	10	mg/kg
	napthalene	91203	LF	12.9	mg/kg
	dimethyl phthalate	131113	LF	24.4	mg/kg
	phenol	108952	LF	32	mg/kg
	chlorobenzene	108907	LF	24	mg/kg
	2-butoxy ethanol	7795917	LF	141	mg/kg
V. FEEDSTOCKS (See Appendix for CAS Numbers)					
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	N/A		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		
VI. SOURCES OF INFORMATION (If in separate reference, e.g., Site 1 vs. Site 2, specify by name, location)					
GA EPD FILE "BASKET CREEK BURIED PIT /SITE #2"					

APPENDIX E

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		I. IDENTIFICATION <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">01 STATE GA</td> <td style="width: 50%; padding: 2px;">02 SITE NUMBER D980844849</td> </tr> </table>		01 STATE GA	02 SITE NUMBER D980844849
01 STATE GA	02 SITE NUMBER D980844849				
II. HAZARDOUS CONDITIONS AND INCIDENTS					
01 <input checked="" type="checkbox"/> A GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED Potential for groundwater contamination due to lechate from the waste disposal area.			
01 <input checked="" type="checkbox"/> B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED Surface water flows over old disposal area.			
01 <input type="checkbox"/> C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED			
01 <input type="checkbox"/> D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED			
01 <input type="checkbox"/> E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED			
01 <input checked="" type="checkbox"/> F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: _____ <div style="text-align: center; font-size: small;">(AC/BB)</div>	02 <input checked="" type="checkbox"/> OBSERVED (DATE: 10-8-85) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED sample S-3 of laboratory data			
01 <input checked="" type="checkbox"/> G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input checked="" type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED Residents in area use groundwater as a source of drinking water			
01 <input type="checkbox"/> H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED			
01 <input type="checkbox"/> I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED: _____	02 <input type="checkbox"/> OBSERVED (DATE: _____) 04 NARRATIVE DESCRIPTION	<input type="checkbox"/> POTENTIAL <input type="checkbox"/> ALLEGED			

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS		I. IDENTIFICATION <small>01 STATE 02 SITE NUMBER</small> GA D980844849	
II. HAZARDOUS CONDITIONS AND INCIDENTS <small>(Continued)</small>			
01 <input type="checkbox"/> J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION <small>(include name(s) of species)</small>	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> M. UNSTABLE CONTAINMENT OF WASTES <small>(Spills, Runoff, Standing Liquids, Leaking Drums)</small> 03 POPULATION POTENTIALLY AFFECTED _____	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input type="checkbox"/> O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
01 <input checked="" type="checkbox"/> P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION <div style="text-align: center; padding: 10px;">Unauthorized disposal of waste</div>	02 <input type="checkbox"/> OBSERVED (DATE _____)	<input type="checkbox"/> POTENTIAL	<input type="checkbox"/> ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS <div style="text-align: center; padding: 10px;">unknown</div>			
III. TOTAL POPULATION POTENTIALLY AFFECTED: <u>57</u>			
IV. COMMENTS <div style="text-align: center; padding: 10px;">None</div>			
V. SOURCES OF INFORMATION: <small>(Use Spill/Incident Report, CS, RCRA, State Files, Sample Analysis Reports)</small> <div style="text-align: center; padding: 10px;">GA EPD FILES "BASKET CREEK BURIED PIT/SITE #2"</div>			

		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION			I. IDENTIFICATION	
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION					01 STATE GA	02 SITE NUMBER D980344849
II. PERMIT INFORMATION						
01 TYPE OF PERMIT ISSUED <small>(Check all that apply)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS		
<input type="checkbox"/> A. NPDES						
<input type="checkbox"/> B. UIC						
<input type="checkbox"/> C. AIR						
<input type="checkbox"/> D. RCRA						
<input type="checkbox"/> E. RCRA INTERIM STATUS						
<input type="checkbox"/> F. SPCC PLAN						
<input type="checkbox"/> G. STATE <small>(Specify)</small>						
<input type="checkbox"/> H. LOCAL <small>(Specify)</small>						
<input type="checkbox"/> I. OTHER <small>(Specify)</small>						
<input checked="" type="checkbox"/> J. NONE						
III. SITE DESCRIPTION						
01 STORAGE/ DISPOSAL <small>(Check all that apply)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>(Check all that apply)</small>	05 OTHER		
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT <input type="checkbox"/> B. PILES <input type="checkbox"/> C. DRUMS, ABOVE GROUND <input type="checkbox"/> D. TANK, ABOVE GROUND <input type="checkbox"/> E. TANK, BELOW GROUND <input type="checkbox"/> F. LANDFILL <input type="checkbox"/> G. LANDFARM <input type="checkbox"/> H. OPEN DUMP <input type="checkbox"/> I. OTHER <small>(Specify)</small>	417	cy	<input type="checkbox"/> A. INCENERATION <input type="checkbox"/> B. UNDERGROUND INJECTION <input type="checkbox"/> C. CHEMICAL/PHYSICAL <input type="checkbox"/> D. BIOLOGICAL <input type="checkbox"/> E. WASTE OIL PROCESSING <input type="checkbox"/> F. SOLVENT RECOVERY <input type="checkbox"/> G. OTHER RECYCLING/RECOVERY <input type="checkbox"/> H. OTHER <small>(Specify)</small>	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE <u>mobile home</u>		
			None	06 AREA OF SITE 0.06 <small>(Acres)</small>		
07 COMMENTS						
None						
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES <small>(Check one)</small>						
<input type="checkbox"/> A. ADEQUATE, SECURE <input checked="" type="checkbox"/> B. MODERATE <input type="checkbox"/> C. INADEQUATE, POOR <input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS						
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.						
Impoundment - no liner, contents of drums emptied into impoundment.						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO						
02 COMMENTS						
12" of earth cover the waste						
VI. SOURCES OF INFORMATION						
GA EPD FILES						

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		I. IDENTIFICATION	
		01 STATE	02 SITE NUMBER
		GA	D980844849

II. DRINKING WATER SUPPLY																		
01 TYPE OF DRINKING SUPPLY (Check one)	02 STATUS	03 DISTANCE TO SITE																
<table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">SURFACE</td> <td style="text-align: center;">WELL</td> </tr> <tr> <td>COMMUNITY A <input type="checkbox"/></td> <td>B <input type="checkbox"/></td> </tr> <tr> <td>NON-COMMUNITY C <input type="checkbox"/></td> <td>D <input checked="" type="checkbox"/></td> </tr> </table>	SURFACE	WELL	COMMUNITY A <input type="checkbox"/>	B <input type="checkbox"/>	NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>	<table style="width: 100%; font-size: x-small;"> <tr> <td style="text-align: center;">ENDANGERED</td> <td style="text-align: center;">AFFECTED</td> <td style="text-align: center;">MONITORED</td> </tr> <tr> <td>A <input type="checkbox"/></td> <td>B <input type="checkbox"/></td> <td>C <input type="checkbox"/></td> </tr> <tr> <td>D <input type="checkbox"/></td> <td>E <input type="checkbox"/></td> <td>F <input checked="" type="checkbox"/></td> </tr> </table>	ENDANGERED	AFFECTED	MONITORED	A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>	E <input type="checkbox"/>	F <input checked="" type="checkbox"/>	A. _____ (mi) B. <u>0.04</u> (mi)	
SURFACE	WELL																	
COMMUNITY A <input type="checkbox"/>	B <input type="checkbox"/>																	
NON-COMMUNITY C <input type="checkbox"/>	D <input checked="" type="checkbox"/>																	
ENDANGERED	AFFECTED	MONITORED																
A <input type="checkbox"/>	B <input type="checkbox"/>	C <input type="checkbox"/>																
D <input type="checkbox"/>	E <input type="checkbox"/>	F <input checked="" type="checkbox"/>																

III. GROUNDWATER			
01 GROUNDWATER USE IN VICINITY (Check one)			
<input checked="" type="checkbox"/> A. ONLY SOURCE FOR DRINKING <input type="checkbox"/> B. DRINKING (Other sources available) <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) <input type="checkbox"/> D. NOT USED, UNUSEABLE (No other water sources available)			
02 POPULATION SERVED BY GROUND WATER		03 DISTANCE TO NEAREST DRINKING WATER WELL	
<u>35</u>		<u>0.02</u> (mi)	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER
<u>unknown</u> (ft)	<u>west</u>	<u>unknown</u> (ft)	<u>unknown</u> (gpd)
08 SOLE SOURCE AQUIFER <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)			
30" diameter bored well, depth of well is 75-feet			
10 RECHARGE AREA		11 DISCHARGE AREA	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
COMMENTS Surface water drainage area		COMMENTS None	


IV. SURFACE WATER			
01 SURFACE WATER USE (Check one)			
<input type="checkbox"/> A. RESERVOIR, RECREATION, DRINKING WATER SOURCE <input type="checkbox"/> B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES <input type="checkbox"/> C. COMMERCIAL, INDUSTRIAL <input checked="" type="checkbox"/> D. NOT CURRENTLY USED			
02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER			
NAME	AFFECTED	DISTANCE TO SITE	
<u>unnamed creek southeast of site</u>	<input checked="" type="checkbox"/>	<u>0.13</u> (mi)	
_____	<input type="checkbox"/>	_____ (mi)	
_____	<input type="checkbox"/>	_____ (mi)	

V. DEMOGRAPHIC AND PROPERTY INFORMATION			
01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE A. <u>57</u> NO. OF PERSONS	TWO (2) MILES OF SITE B. <u>395</u> NO. OF PERSONS	THREE (3) MILES OF SITE C. <u>809</u> NO. OF PERSONS	<u>0.02</u> (mi)
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE		04 DISTANCE TO NEAREST OFF-SITE BUILDING	
<u>104</u>		<u>.05</u> (mi)	
05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural village, densely populated urban area)			
Rural, single family residences in vicinity of the site.			

APPENDIX E

		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION				
		PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">01 STATE GA</td> <td style="width: 50%;">02 SITE NUMBER D980844849</td> </tr> </table>		01 STATE GA	02 SITE NUMBER D980844849	
01 STATE GA	02 SITE NUMBER D980844849							
VI. ENVIRONMENTAL INFORMATION								
01 PERMEABILITY OF UNSATURATED ZONE (Check one)								
<input type="checkbox"/> A. $10^{-6} - 10^{-8}$ cm/sec <input checked="" type="checkbox"/> B. $10^{-4} - 10^{-6}$ cm/sec <input type="checkbox"/> C. $10^{-4} - 10^{-3}$ cm/sec <input type="checkbox"/> D. GREATER THAN 10^{-3} cm/sec								
02 PERMEABILITY OF BEDROCK (Check one)								
<input type="checkbox"/> A. IMPERMEABLE (Less than 10^{-8} cm/sec) <input checked="" type="checkbox"/> B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) <input type="checkbox"/> C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) <input type="checkbox"/> D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)								
03 DEPTH TO BEDROCK <u>unknown</u> (ft)		04 DEPTH OF CONTAMINATED SOIL ZONE <u>4</u> (ft)		05 SOIL pH <u>unknown</u>				
06 NET PRECIPITATION <u>48</u> (in)		07 ONE YEAR 24 HOUR RAINFALL <u>3.25</u> (in)		08 SLOPE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">SITE SLOPE <u>20</u> %</td> <td style="width: 33%;">DIRECTION OF SITE SLOPE <u>East</u></td> <td style="width: 33%;">TERRAIN AVERAGE SLOPE <u>20</u> %</td> </tr> </table>		SITE SLOPE <u>20</u> %	DIRECTION OF SITE SLOPE <u>East</u>	TERRAIN AVERAGE SLOPE <u>20</u> %
SITE SLOPE <u>20</u> %	DIRECTION OF SITE SLOPE <u>East</u>	TERRAIN AVERAGE SLOPE <u>20</u> %						
09 FLOOD POTENTIAL SITE IS IN <u>n/a</u> YEAR FLOODPLAIN		10 <input type="checkbox"/> SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY <u>n/a</u>						
11 DISTANCE TO WETLANDS (5 acre minimum)			12 DISTANCE TO CRITICAL HABITAT (of endangered species)					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">ESTUARINE <u>unknown</u> A. _____ (mi)</td> <td style="width: 50%;">OTHER B. _____ (mi)</td> </tr> </table>			ESTUARINE <u>unknown</u> A. _____ (mi)	OTHER B. _____ (mi)	<u>unknown</u> (mi) ENDANGERED SPECIES: _____			
ESTUARINE <u>unknown</u> A. _____ (mi)	OTHER B. _____ (mi)							
13 LAND USE IN VICINITY								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DISTANCE TO COMMERCIAL/INDUSTRIAL A. <u>1.85</u> (mi)</td> <td style="width: 33%;">RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES B. <u>0.04</u> (mi)</td> <td style="width: 33%;">AGRICULTURAL LANDS PRIME AG LAND AG LAND C. _____ (mi) D. <u>0.75</u> (mi)</td> </tr> </table>						DISTANCE TO COMMERCIAL/INDUSTRIAL A. <u>1.85</u> (mi)	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES B. <u>0.04</u> (mi)	AGRICULTURAL LANDS PRIME AG LAND AG LAND C. _____ (mi) D. <u>0.75</u> (mi)
DISTANCE TO COMMERCIAL/INDUSTRIAL A. <u>1.85</u> (mi)	RESIDENTIAL AREAS, NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES B. <u>0.04</u> (mi)	AGRICULTURAL LANDS PRIME AG LAND AG LAND C. _____ (mi) D. <u>0.75</u> (mi)						
14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY <p>The topography of the area is that of rolling hills and valleys. The site lies in a draw. Surface water from the surrounding terrain will be concentrated and flow across the site. Ground water flow is also expected to travel in a similar direction.</p>								
VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)								
GA EPD FILES								

APPENDIX E

		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT		I. IDENTIFICATION	
		PART 6 - SAMPLE AND FIELD INFORMATION		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">01 STATE GA</td> <td style="width: 50%; text-align: center;">02 SITE NUMBER D980844849</td> </tr> </table>	
01 STATE GA	02 SITE NUMBER D980844849				

II. SAMPLES TAKEN			
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	EPD LABORATORY	
SURFACE WATER			
WASTE	1	" "	
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION	2	" "	
OTHER			

III. FIELD MEASUREMENTS TAKEN	
01 TYPE	02 COMMENTS
none	n/a

IV. PHOTOGRAPHS AND MAPS	
01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF
none	n/a
(Name of organization or individual)	
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS GA ENVIRONMENTAL PROTECTION DIVISION

V. OTHER FIELD DATA COLLECTED <small>Provide narrative description.</small>
<p style="font-size: 1.2em; margin-top: 40px;">NONE</p>

VI. SOURCES OF INFORMATION <small>(List all sources of information, including site visits, and analytical reports.)</small>
<p style="font-size: 1.2em; margin-top: 40px;">GA EPD FILES</p>

EPA FORM 2070-13 (7-81)



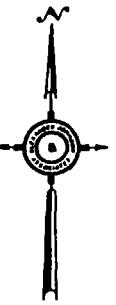
County Name Douglas
 Picture No. 10 of 11
 Site Name Wallace Lake Rd Dump
 Date 3-4-85 Weather Clear
 Direction Facing West
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation Photograph of
old trench disposal area
that was used to discard
Other waste. Site has since
been leveled and turned
into a horse pasture
photograph is from unpaved
road that bisects the
horse pasture.



County Name Douglas
 Picture No. 11 of 11
 Site Name Wallace Lake Rd Dump
 Date 3-4-85 Weather Clear
 Direction Facing West
 Photographer Jeff Williams
 Program Remedial Actions Unit
 Explanation photograph of
unconsolidated soils that
contained tar like residues
Other on the surface. This
area occurs just outside
of the fenced pasture
on the western margins of
the trees. This area is
presumed to be an old pit
where burning was once
practiced.

ATTACHMENT I
PROPERTY OWNERSHIP INFORMATION

36-3-5



69-3-5

17-3-5

48

35

49

34

33-3-5

Chuck Alsip
Head of Security
Southwire Corp
Carrollton

LEGEND: NUMBER IN 1 INDICATES ORIGINAL SUBDIVISION LOT AND
OPEN NUMBER INDICATES TAX MAP LOT NUMBER
--- DASHED LINE IS ORIGINAL SUBDIVISION LOT LINE
--- DASHED LINE IS LINE OF DISCREPANCY

NOTE:
THIS MAP WAS COMPILED FROM AN AERIAL SURVEY
IT IS TO BE USED FOR TAX PURPOSES ONLY. THE
COUNTY AND THE COMMISSION ASSUME NO
LIABILITY FOR THE ACCURACY OF INFORMATION
CONTAINED HEREIN.

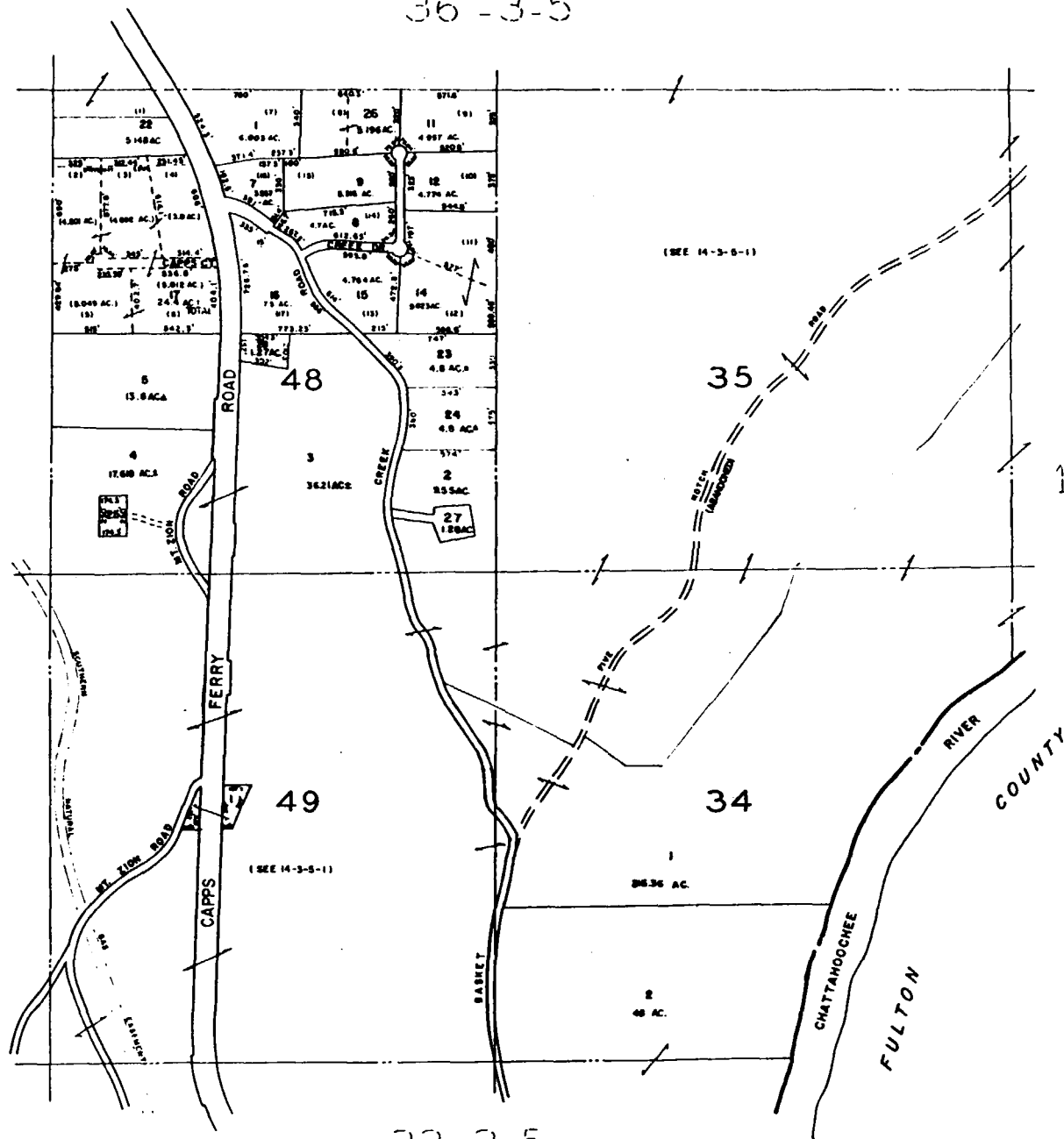
DOMAR PROP. P. 7 P. 65

DOUGLAS COUNTY, GA
SHEET NO.
34-3-5
DATE 1-1-80 SCALE 1" = 400'

Photo AU-2-176 & 178

1 9 0238

289



1 9 0239

PARTIAL NO. 100000000000 ACCOUNT NO. 100000000000 LOCATION 100000000000 DESC 100000000000

OWNERSHIP RECORD DATE DB/PG SP

PARSER, PAULA
7768 LAKELI DRIVE ROAD
DOUGLASVILLE, GA 30134

ASSESSMENT RECORD

YEAR	1987	1988	YEAR	1987	1988	YEAR	1987	1988	YEAR	1987	1988
LAND	1000	1000	LAND	1000	1000	LAND	1000	1000	LAND	1000	1000
BLDG	1000	1000	BLDG	1000	1000	BLDG	1000	1000	BLDG	1000	1000
TOTAL	2000	2000	TOTAL	2000	2000	TOTAL	2000	2000	TOTAL	2000	2000

STRUCTURES

OCCUPANCY	ROOF COVER	QUALITY FACTORS	MOBILE HOMES	UTILITIES	STREET	LANDSCAPING	DRAINAGE
SGL FMY	ASPH SHG	GRADE COND	SIZE	PUB WATER	PAVED	NOMINAL	GOOD
DUPLEX	T & G	YR BLT EFF YB	YEAR BUILT	NAT GAS	C & G	FAIR	FAIR
MH	METAL	FUNCT LOC	CLASS	ELECT	S WALK	AVERAGE	POOR
OTHER	ROLL			SEWER	RESTRICTIVE COVENANTS	YES	NO
	SLATE						
DESIGN	WD SHG	LIVING	COMPUTATIONS				
1 2%	OTHER	TOTAL BSMT	BASE				
1% 2%		FIN BSMT	A/C				
1% S/L	FLOOR FINISH	FIN ATTIC	FACTORY ADD				
2 S/F	CARPET	ATTIC STG FL	FRAME ADD				
	INLD VYL	CARPORT CAR CAP	SC PORCH				
FOUNDATION	TILE	BSMT GAR CAP	OFF				
CONC	HARD WD	ATT GAR CAR CAP	CANOPY				
C.B.	SOFT WD	STORAGE ROOM	DECK				
BRK	CONC	PATIO OG	PATIO				
PIER	UNFIN	PATIO AG	OTHER				
STONE		SUNDECK					
	INTERIOR FINISH	OPEN PORCH	ESTIMATED REPLACEMENT				
SUBFLOOR	DRYWALL	ENCL PORCH	COST				
WOOD JOIST	PNL SOFT WD	POOL	LESS DEPRECIATION				
CONC SLAB	PNL HARD WD	OTHER FEATURES	DEPRECIATED VALUE				
	PLASTER	CHIMNEYS 1s 2s					
	UNFIN	FIREPLACES					
EXTERIOR WALLS		DW IC AF	LOCATION #				
FHV		CV TM BA	DESCRIPTION ACRES VALUE				
CFDAR SDG	PLUMBING	MIC OVEN OR/VH	IF or HS				
WD SDG	FULL BATHS		IC				
CLDAR SGL	1/2 BATHS		IW				
ASB SGL	TOTAL FIXTURES	NOTES	IIF or HS				
STUCCO/FR			IIC				
ALUM SDG	ROOMS		IIW				
BRK/FR	BEDROOMS		IIC				
STUCCO/C.B.	TOTAL ROOMS		OTHER				
BRK/C.B.			TOTAL				
STONE	HEATING / A/C		AV RPA				
BD/BTNS	GFWA OFWA						
BEVEL SDG	EFWA HWG						
DROP SDG	HWO HP						
HRD RD SDG	BBE WF						
	FF NO HT						
ROOF DESIGN	A/C						
FLAT HIP							
GAB MAN							
GAM							

STRUCTURES

MAIN

BSMT

FIN BSMT

F ATTIC

ATTIC STG

CARPORT

GARAGE

STG ROOM

PATIO

SUNDECK

OPEN PORCH

ENCL PORCH

POOL

HEAT

A/C

PLUMBING FIX

FIREPLACES

LS/ST/DW

OTHER FEAT

MISC BLDGS

ESTIMATED REPLACEMENT COST \$

% COMPLETE

LESS PHYSICAL DEP

LESS FUNCTIONAL OBSOLESCENCE

LESS LOCATIONAL OBSOLESCENCE

ESTIMATED DEPRECIATED FMV

OTHER STRUCTURES

SUB TOTAL STRUCTURES

TOTAL STRUCTURES OTHER CARDS

TOTAL STRUCTURE VALUE

LAND VALUE

FINAL PROPERTY VALUE



1 9 0240

PARCEL NO. 1170 EASLEY CIRCLE BLA		ACCOUNT NO. 1170 EASLEY CIRCLE BLA		LOCATION DOUGLASVILLE, GA		DESC. 1170 EASLEY CIRCLE BLA	
OWNERSHIP RECORD				ASSESSMENT RECORD			
DATE		DB/PG		SP		YEAR 1981	
Katherine Transferred for 1989 per Min. Bk. Z		Pg. 317				YEAR 1981	
DOUGLASVILLE, GA						YEAR 1981	
STRUCTURES				MOBILE HOMES			
OCCUPANCY		ROOF COVER		QUALITY FACTORS		SITE FACTORS	
SGL FMY		ASPH SHG		GRADE COND		UTILITIES	
DUPEX		T & G		YR. BLT. EFF. YB.		STREET	
MH		METAL		FUNCT LOC		LANDSCAPING	
OTHER		ROLL				DRAINAGE	
DESIGN		SLATE		LIVING		PUB WATER	
1 2%		WD SHG		TOTAL BSMT		PAVED	
1% 2%		OTHER		FIN BSMT		NAT GAS	
1% S/L		FLOOR FINISH		FIN ATTIC		C & G	
2 S/F		CARPET		ATTIC STG. FL		FAIR	
FOUNDATION		INLD VYL		CARPORT CAR CAP		AVERAGE	
CONC		TILE		BSMT GAR CAP		POOR	
C.B.		HARD WD		ATT GAR CAR CAP		SEWER	
HRK		SOFT WD		STORAGE ROOM		RESTRICTIVE COVENANTS	
PIER		CONC		PATIO OG		YES NO X	
STONE		UNFIN		PATIO AG			
SUBFLOOR		INTERIOR FINISH		SUNDECK		STRUCTURES	
WOOD JOIST		DRYWALL		OPEN PORCH		MAIN	
CONC SLAB		PNL SOFT WD		ENCL. PORCH		BSMT	
EXTERIOR WALLS		PNL HARD WD		POOL		FIN BSMT	
FBV		PLASTER		OTHER FEATURES		F ATTIC	
CEDAR SDG.		UNFIN.		CHIMNEYS: 1s 2s		ATTIC STG.	
WD SDG.		PLUMBING		FIREPLACES		CARPORT	
CEDAR SGL.		FULL BATHS		DW IC AF		GARAGE	
ASB SGL.		% BATHS		CV TM BA		STG ROOM	
STUCCO/FR.		TOTAL FIXTURES		MIC OVEN OR/VHK		PATIO	
ALUM SDG.		ROOMS		NOTES		SUNDECK	
BRK/FR		BEDROOMS				OPEN PORCH	
STUCCO/CB		TOTAL ROOMS				ENCL. PORCH	
BRK/CB		HEATING / A/C				POOL	
STONE		GFWA OFWA				HEAT	
BD/BTNS		ETWA HWG				A/C	
BEVEL SDG.		HWO HP				PLUMBING FIX	
DROP SDG		BBE WF				FIREPLACES	
HRD BD SDG.		FF NO HT				LS/ST/OW	
ROOF DESIGN		A/C				OTHER FEAT.	
FLAT HIP						MISC. BLDGS.	
GAB MAN						ESTIMATED REPLACEMENT COST \$	
GAM						% COMPLETE	
						LESS PHYSICAL DEP	
						LESS FUNCTIONAL OBSOLESCENCE	
						LESS LOCALATIONAL OBSOLESCENCE	
						ESTIMATED DEPRECIATED FMV	
						OTHER STRUCTURES	
						SUB TOTAL STRUCTURES	
						TOTAL STRUCTURES OTHER CARDS	
						TOTAL STRUCTURE VALUE	
						LAND VALUE	
						FINAL PROPERTY VALUE	
						11701	





PARCEL NO 0014035 00001

ACCOUNT NO. K059751

LOCATION

DESC Hse/2538.557 ACRES, GEORGIA HIGHWAY 166

OWNERSHIP RECORD

DATE

DB/PG

SP

ASSESSMENT RECORD

RIVER JUNCTION LANDS, INC.
P.O. BOX 400
CARROLLTON, GA 30117

YEAR	198	9	BOA	YEAR	198	9	YEAR	198	YEAR	198
LAND			496727	LAND			287074	LAND		
BLDG				BLDG				BLDG		
TOTAL			496727	TOTAL			287074	TOTAL		
YEAR	198	1	1	YEAR	198	1	YEAR	198	YEAR	198
LAND				LAND				LAND		
BLDG				BLDG				BLDG		
TOTAL				TOTAL				TOTAL		

STRUCTURES

OCCUPANCY
SGL FMY
DUPEX
MH
OTHER

ROOF COVER

ASPH SHG
T & G
METAL
ROLL
SLATE
WD SHG
OTHER

QUALITY FACTORS

GRADE COND
YR BLT EFF YB
FUNCT LOC

DESIGN

1 2%
1% 2%
1% S/L
2 S/F

FLOOR FINISH

CARPET
INLD VYL
TILE

FOUNDATION

CONC
C.B.
BRK
PIER
STONE

INTERIOR FINISH

DRYWALL
PNL SOFT WD
PNL HARD WD
PLASTER
UNFIN

EXTERIOR WALLS

FBV
CEDAR SDG
WD SDG
CEDAR SGL
ASB SGL
STUCCO/FR
ALUM SDG
BRK/FR
STUCCO/C.B.
BRK/C.B.
STONE
BD/BNIS
BEVEL SDG
DROP SDG
HRD BD SDG

PLUMBING

FULL BATHS
% BATHS
TOTAL FIXTURES

ROOMS

BEDROOMS
TOTAL ROOMS

HEATING / A/C

GFWA OFWA
EFWA HWG
HWO HP
BBE WF
FF NO HT
A/C

ROOF DESIGN

FLAT HIP
GAB MAN
GAM

NOTES

1. 1st floor finished with carpet.
2. 2nd floor finished with carpet.
3. 3rd floor finished with carpet.
4. 4th floor finished with carpet.
5. 5th floor finished with carpet.
6. 6th floor finished with carpet.
7. 7th floor finished with carpet.
8. 8th floor finished with carpet.
9. 9th floor finished with carpet.
10. 10th floor finished with carpet.

MOBILE HOMES

SIZE X
YEAR BUILT
CLASS

COMPUTATIONS

BASE
A/C
FACTORY ADD
FRAME ADD
SC PORCH
OFF
CANOPY
DECK
PATIO
OTHER

ESTIMATED REPLACEMENT

COST \$
LESS DEPRECIATION
DEPRECIATED VALUE \$

LOCATION

DESCRIPTION	ACRES	VALUE
IF or HS		412
IC		16
IW		4
IIF or HS		14
IIC		206
IIW		18
IIIC		
OTHER		
TOTAL		87,010
AV RPA		57

ZONING

X
R-1
R-2
R-3
R-4
R-5
OTHER

SITE FACTORS

UTILITIES STREET LANDSCAPING DRAINAGE
PUB WATER 0 PAVED X NOMINAL GOOD
NAT GAS 0 C & G FAIR FAIR X
ELECT 1 S. WALK AVERAGE POOR
SEWER 0 RESTRICTIVE COVENANTS YES NO X

STRUCTURES

MAIN
BSMT
FIN BSMT
F ATTIC
ATTIC STG
CARPORT
GARAGE
STG ROOM
PATIO
SUNDECK
OPEN PORCH
ENCL. PORCH
POOL
HEAT
A/C
PLUMBING FIX
FIREPLACES
LS/ST/DW
OTHER FEAT
MISC BLDGS
ESTIMATED REPLACEMENT COST \$
% COMPLETE
LESS PHYSICAL DEP.
LESS FUNCTIONAL OBSOLESCE
LESS LOCAL OBSOLESCE
ESTIMATED DEPRECIATED FMV
OTHER STRUCTURES
SUB TOTAL STRUCTURES
TOTAL STRUCTURES OTHER CARDS
TOTAL STRUCTURE VALUE 117686
LAND VALUE 117686
FINAL PROPERTY VALUE 1241817

